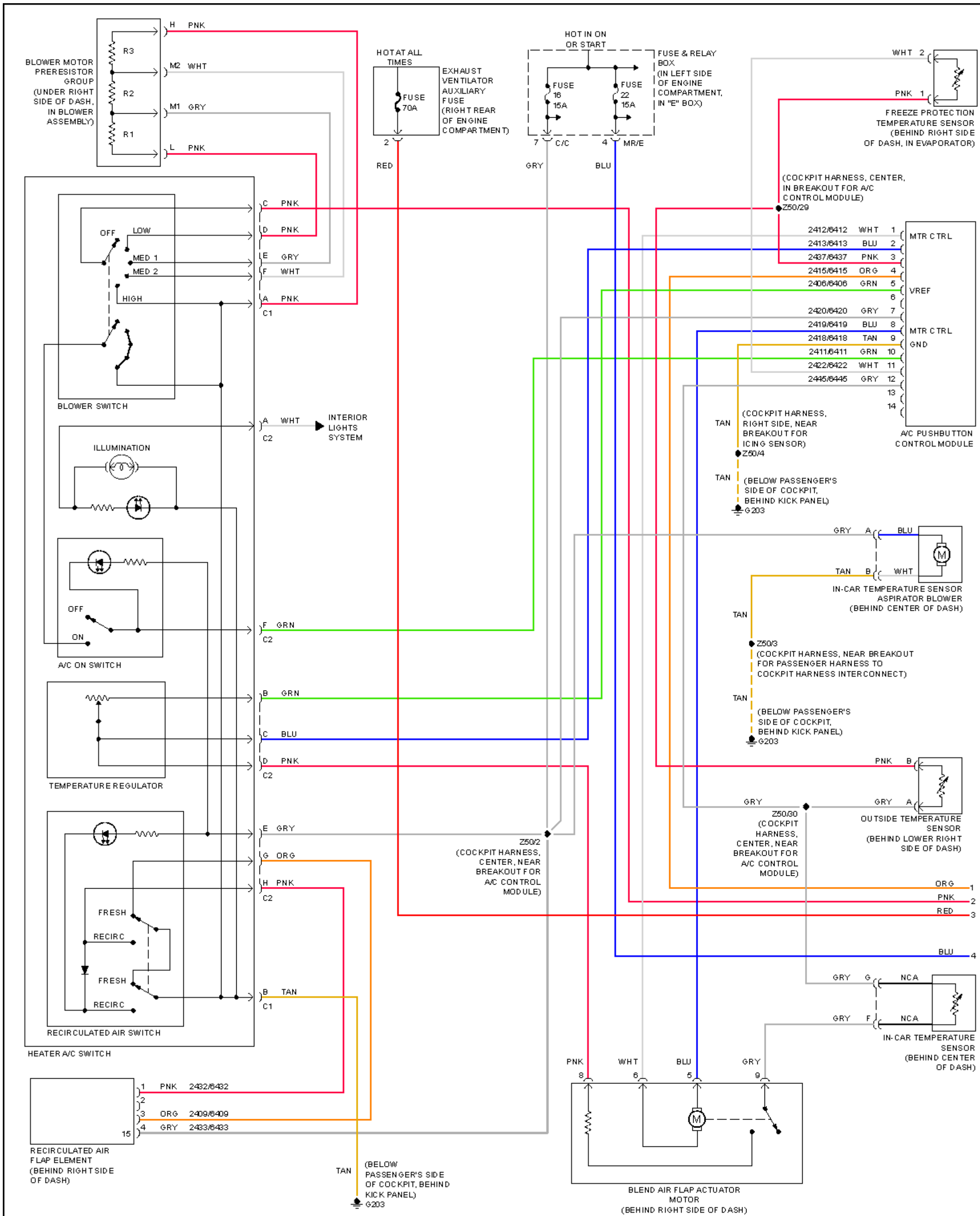
2001 SYSTEM WIRING DIAGRAMS

Mercedes-Benz - ML320

USING MITCHELL1'S WIRING DIAGRAMS

For information on using these wiring diagrams, see **USING MITCHELL1'S SYSTEM WIRING DIAGRAMS** article.

AIR CONDITIONING



BLOWER MOTOR PRERESISTOR GROUP (UNDER RIGHT SIDE OF DASH, IN BLOWER ASSEMBLY)
R3
R2
R1
H PNK
M2 WHT
M1 GRY
L PNK
HOT AT ALL TIMES
EXHAUST VENTILATOR AUXILIARY FUSE (RIGHT REAR OF ENGINE COMPARTMENT)
FUSE 70A
2
RED
HOT IN ON OR START
FUSE 16 15A
FUSE 22 15A
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
7 C/C
4 MR/E
GRY
BLU
WHT 2
PNK 1
FREEZE PROTECTION TEMPERATURE SENSOR (BEHIND RIGHT SIDE OF DASH, IN EVAPORATOR)
(COCKPIT HARNESS, CENTER, IN BREAKOUT FOR A/C CONTROL MODULE)
Z50/29
OFF
LOW
MED 1
MED 2
HIGH
BLOWER SWITCH
C PNK
D PNK
E GRY
F WHT
A PNK
C1
2412/6412 WHT 1
2413/6413 BLU 2
2437/6437 PNK 3
2415/6415 ORG 4
2406/6406 GRN 5
6
2420/6420 GRY 7
2419/6419 BLU 8
2418/6418 TAN 9
2411/6411 GRN 10
2422/6422 WHT 11
2445/6445 GRY 12
13
14
MTR CTRL
VREF
MTR CTRL
GND
A/C PUSHBUTTON CONTROL MODULE
A WHT
C2
INTERIOR LIGHTS SYSTEM
ILLUMINATION
TAN
(COCKPIT HARNESS, RIGHT SIDE, NEAR BREAKOUT FOR ICING SENSOR)
Z50/4
(BELOW PASSENGER'S SIDE OF COCKPIT, BEHIND KICK PANEL)
G203
GRY A
BLU
TAN B
WHT
IN-CAR TEMPERATURE SENSOR ASPIRATOR BLOWER (BEHIND CENTER OF DASH)
OFF
ON
A/C ON SWITCH
F GRN
Z50/3
(COCKPIT HARNESS, NEAR BREAKOUT FOR PASSENGER HARNESS TO COCKPIT HARNESS INTERCONNECT)
B GRN
C BLU
D PNK
TEMPERATURE REGULATOR
PNK B
GRY A
Z50/30 (COCKPIT HARNESS, CENTER, NEAR BREAKOUT FOR A/C CONTROL MODULE)
OUTSIDE TEMPERATURE SENSOR (BEHIND LOWER RIGHT SIDE OF DASH)
E GRY
G ORG
H PNK
Z50/2 (COCKPIT HARNESS, CENTER, NEAR BREAKOUT FOR A/C CONTROL MODULE)
ORG 1
PNK 2
RED 3
BLU 4
FRESH
RECIRC
FRESH
RECIRC
B TAN
RECIRCULATED AIR SWITCH
HEATER A/C SWITCH
GRY G NCA
GRY F NCA
IN-CAR TEMPERATURE SENSOR (BEHIND CENTER OF DASH)
1 PNK 2432/6432
2
3 ORG 2409/6409
15 4 GRY 2433/6433
RECIRCULATED AIR FLAP ELEMENT (BEHIND RIGHT SIDE OF DASH)
(BELOW PASSENGER'S SIDE OF COCKPIT, BEHIND KICK PANEL)
G203
PNK 8
WHT 6
BLU 5
GRY 9
M
BLEND AIR FLAP ACTUATOR MOTOR (BEHIND RIGHT SIDE OF DASH)
143731

Fig. 1: Manual A/C Circuit, W/ Coolant Fan Control Module (1 of 2)

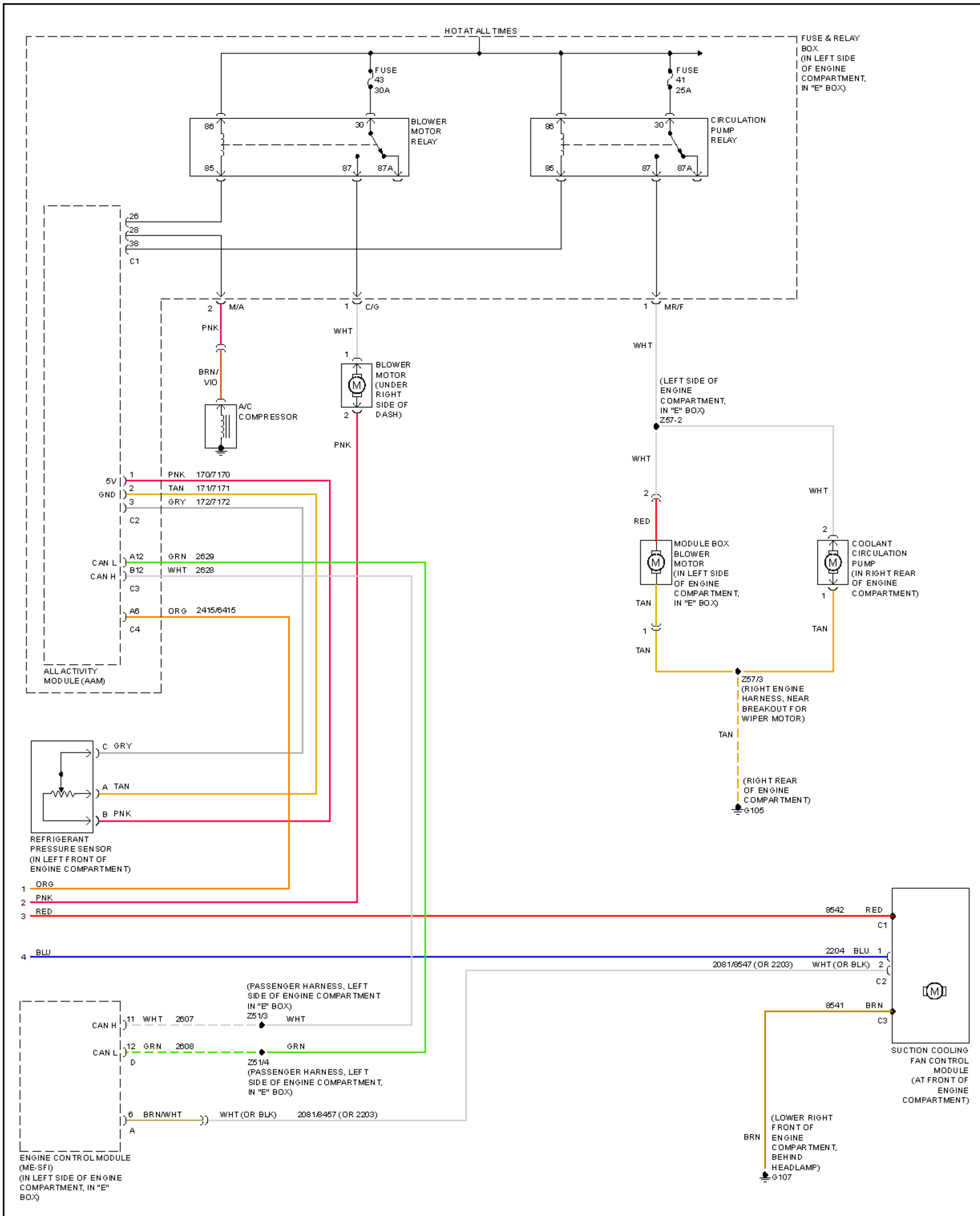
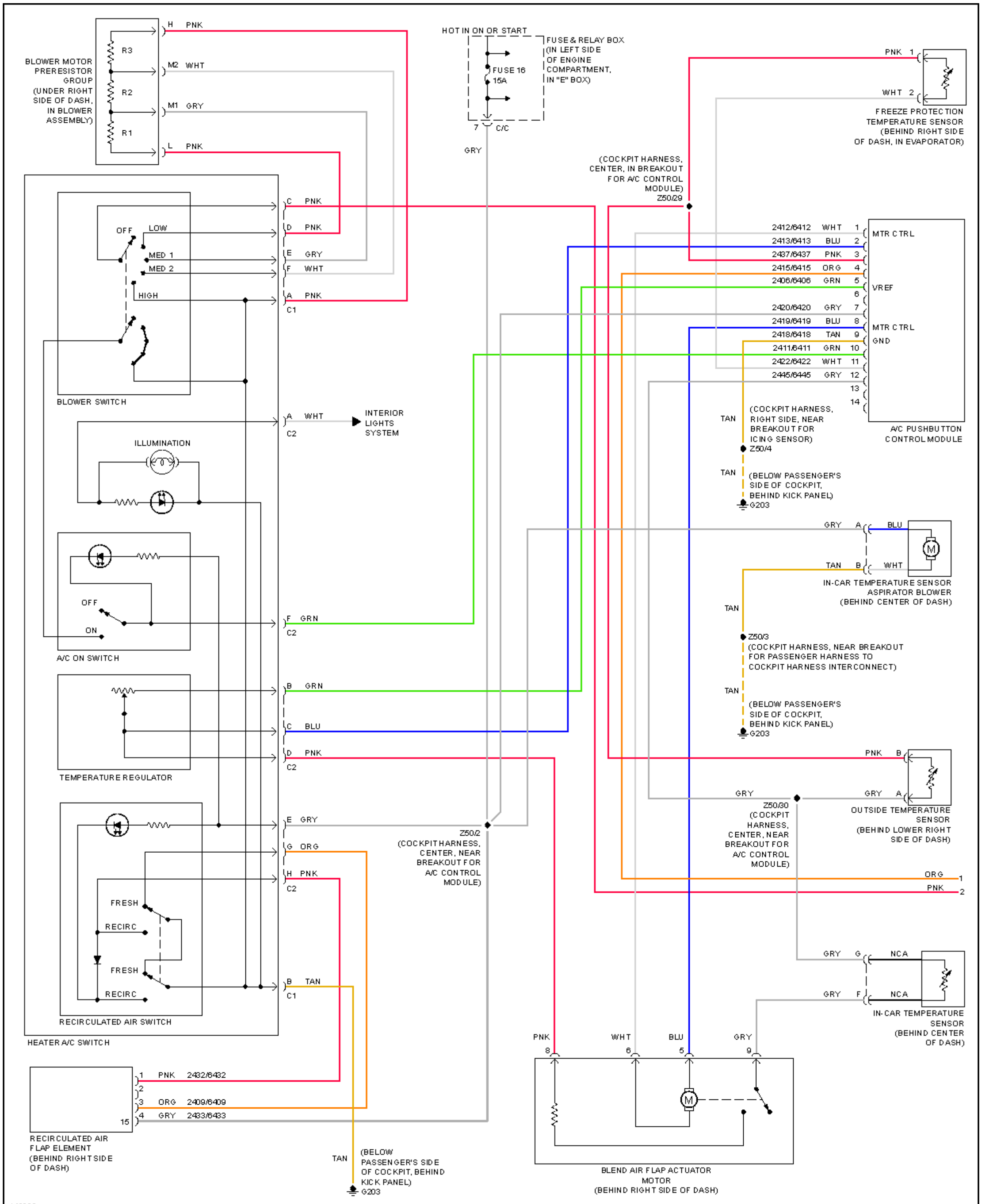
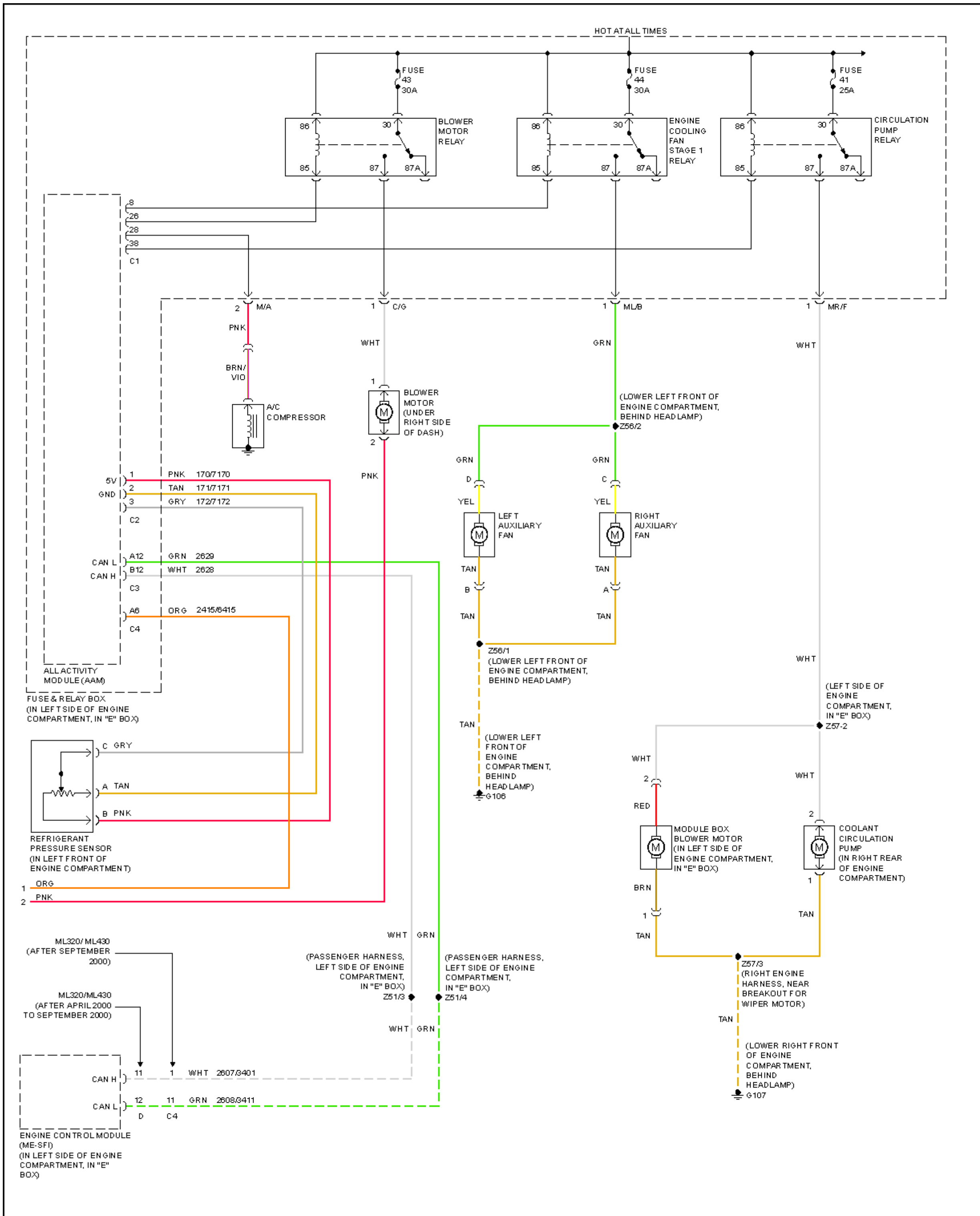

HOT AT ALL TIMES
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
FUSE 43 30A
FUSE 41 25A
BLOWER MOTOR RELAY
CIRCULATION PUMP RELAY
86
30
85
87
87A
26
28
38
C1
M/A
C/G
MR/F
PNK
BRN/VIO
A/C COMPRESSOR
WHT
BLOWER MOTOR (UNDER RIGHT SIDE OF DASH)
(LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX) Z57-2
5V
GND
PNK 170/7170
TAN 171/7171
GRY 172/7172
C2
CAN L
CAN H
A12 GRN 2629
B12 WHT 2628
C3
A6 ORG 2415/6415
C4
ALL ACTIVITY MODULE (AAM)
RED
MODULE BOX BLOWER MOTOR (IN LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
COOLANT CIRCULATION PUMP (IN RIGHT REAR OF ENGINE COMPARTMENT)
TAN
Z57/3 (RIGHT ENGINE HARNESS, NEAR BREAKOUT FOR WIPER MOTOR)
(RIGHT REAR OF ENGINE COMPARTMENT) G105
C GRY
A TAN
B PNK
REFRIGERANT PRESSURE SENSOR (IN LEFT FRONT OF ENGINE COMPARTMENT)
ORG
RED
BLU
8542 RED
2204 BLU
2081/8547 (OR 2203) WHT (OR BLK)
8541 BRN
SUCTION COOLING FAN CONTROL MODULE (AT FRONT OF ENGINE COMPARTMENT)
(PASSENGER HARNESS, LEFT SIDE OF ENGINE COMPARTMENT IN "E" BOX) Z51/3
11 WHT 2607
12 GRN 2608
Z51/4 (PASSENGER HARNESS, LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
D
6 BRN/WHT
WHT (OR BLK) 2081/8457 (OR 2203)
ENGINE CONTROL MODULE (ME-SFI) (IN LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
BRN
(LOWER RIGHT FRONT OF ENGINE COMPARTMENT, BEHIND HEADLAMP) G107
143732

Fig. 2: Manual A/C Circuit, W/ Coolant Fan Control Module (2 of 2)



BLOWER MOTOR PRERESISTOR GROUP (UNDER RIGHT SIDE OF DASH, IN BLOWER ASSEMBLY)
R3
R2
R1
H PNK
M2 WHT
M1 GRY
L PNK
HOT IN ON OR START
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
FUSE 16 15A
7 C/C
GRY
FREEZE PROTECTION TEMPERATURE SENSOR (BEHIND RIGHT SIDE OF DASH, IN EVAPORATOR)
PNK 1
WHT 2
(COCKPIT HARNESS, CENTER, IN BREAKOUT FOR A/C CONTROL MODULE) Z50/29
OFF
LOW
MED 1
MED 2
HIGH
BLOWER SWITCH
C PNK
D PNK
E GRY
F WHT
A PNK
C1
2412/6412 WHT 1
2413/6413 BLU 2
2437/6437 PNK 3
2415/6415 ORG 4
2406/6406 GRN 5
6
2420/6420 GRY 7
2419/6419 BLU 8
2418/6418 TAN 9
2411/6411 GRN 10
2422/6422 WHT 11
2445/6445 GRY 12
13
14
MTR CTRL
VREF
MTR CTRL
GND
A/C PUSHBUTTON CONTROL MODULE
A WHT
C2
INTERIOR LIGHTS SYSTEM
ILLUMINATION
TAN
(COCKPIT HARNESS, RIGHT SIDE, NEAR BREAKOUT FOR ICING SENSOR) Z50/4
TAN
(BELOW PASSENGER'S SIDE OF COCKPIT, BEHIND KICK PANEL) G203
GRY A BLU
TAN B WHT
IN-CAR TEMPERATURE SENSOR ASPIRATOR BLOWER (BEHIND CENTER OF DASH)
OFF
ON
A/C ON SWITCH
F GRN
C2
TAN
Z50/3 (COCKPIT HARNESS, NEAR BREAKOUT FOR PASSENGER HARNESS TO COCKPIT HARNESS INTERCONNECT)
TAN
(BELOW PASSENGER'S SIDE OF COCKPIT, BEHIND KICK PANEL) G203
B GRN
C BLU
D PNK
C2
TEMPERATURE REGULATOR
PNK B
GRY A
GRY
Z50/30 (COCKPIT HARNESS, CENTER, NEAR BREAKOUT FOR A/C CONTROL MODULE)
OUTSIDE TEMPERATURE SENSOR (BEHIND LOWER RIGHT SIDE OF DASH)
E GRY
G ORG
H PNK
C2
Z50/2 (COCKPIT HARNESS, CENTER, NEAR BREAKOUT FOR A/C CONTROL MODULE)
ORG 1
PNK 2
FRESH
RECIRC
FRESH
RECIRC
B TAN
C1
RECIRCULATED AIR SWITCH
HEATER A/C SWITCH
GRY G NCA
GRY F NCA
IN-CAR TEMPERATURE SENSOR (BEHIND CENTER OF DASH)
PNK 8
WHT 6
BLU 5
GRY 9
M
BLEND AIR FLAP ACTUATOR MOTOR (BEHIND RIGHT SIDE OF DASH)
1 PNK 2432/6432
2
3 ORG 2409/6409
4 GRY 2433/6433
15
RECIRCULATED AIR FLAP ELEMENT (BEHIND RIGHT SIDE OF DASH)
TAN
(BELOW PASSENGER'S SIDE OF COCKPIT, BEHIND KICK PANEL) G203
143669

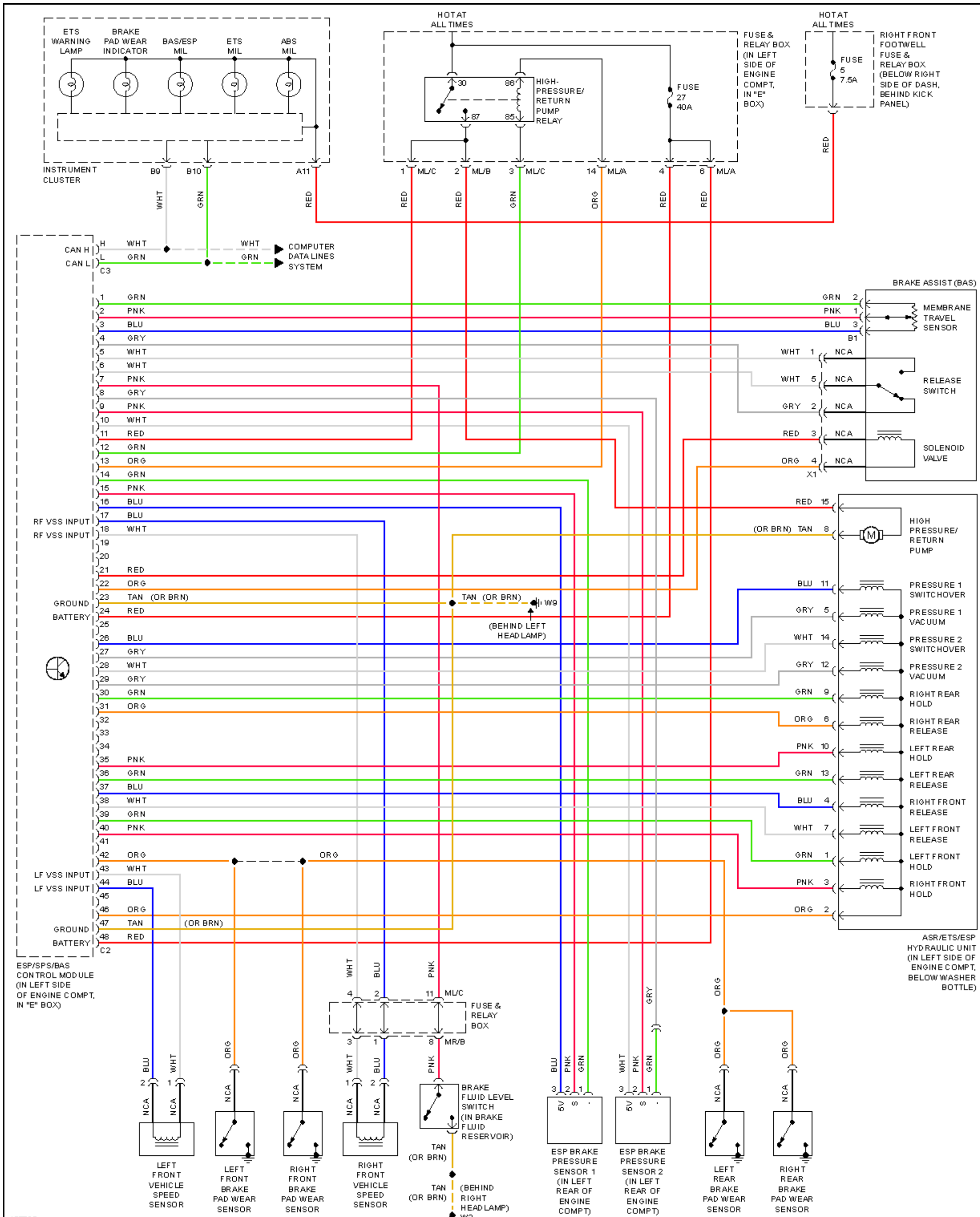
Fig. 3: Manual A/C Circuit, W/O Coolant Fan Control Module (1 of 2)



HOT AT ALL TIMES
FUSE 43 30A
FUSE 44 30A
FUSE 41 25A
86
30
85
87
87A
BLOWER MOTOR RELAY
ENGINE COOLING FAN STAGE 1 RELAY
CIRCULATION PUMP RELAY
8
26
28
38
C1
2
M/A
1
C/G
ML/B
MR/F
PNK
WHT
GRN
BRN/ VIO
A/C COMPRESSOR
BLOWER MOTOR (UNDER RIGHT SIDE OF DASH)
(LOWER LEFT FRONT OF ENGINE COMPARTMENT, BEHIND HEADLAMP)
Z56/2
D
C
YEL
LEFT AUXILIARY FAN
RIGHT AUXILIARY FAN
TAN
B
A
Z56/1
(LOWER LEFT FRONT OF ENGINE COMPARTMENT, BEHIND HEADLAMP)
(LOWER LEFT FRONT OF ENGINE COMPARTMENT, BEHIND HEADLAMP)
G106
5V
GND
1
2
3
PNK 170/7170
TAN 171/7171
GRY 172/7172
C2
CAN L
CAN H
A12
B12
GRN 2629
WHT 2628
C3
A6
ORG 2415/6415
C4
ALL ACTIVITY MODULE (AAM)
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
C GRY
A TAN
B PNK
REFRIGERANT PRESSURE SENSOR (IN LEFT FRONT OF ENGINE COMPARTMENT)
ORG
PNK
(LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
Z57-2
RED
MODULE BOX BLOWER MOTOR (IN LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
COOLANT CIRCULATION PUMP (IN RIGHT REAR OF ENGINE COMPARTMENT)
BRN
Z57/3
(RIGHT ENGINE HARNESS, NEAR BREAKOUT FOR WIPER MOTOR)
(LOWER RIGHT FRONT OF ENGINE COMPARTMENT, BEHIND HEADLAMP)
G107
ML320/ ML430 (AFTER SEPTEMBER 2000)
ML320/ML430 (AFTER APRIL 2000 TO SEPTEMBER 2000)
(PASSENGER HARNESS, LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
Z51/3
Z51/4
11
12
WHT 2607/3401
GRN 2608/3411
D
C4
ENGINE CONTROL MODULE (ME-SFI) (IN LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
143670

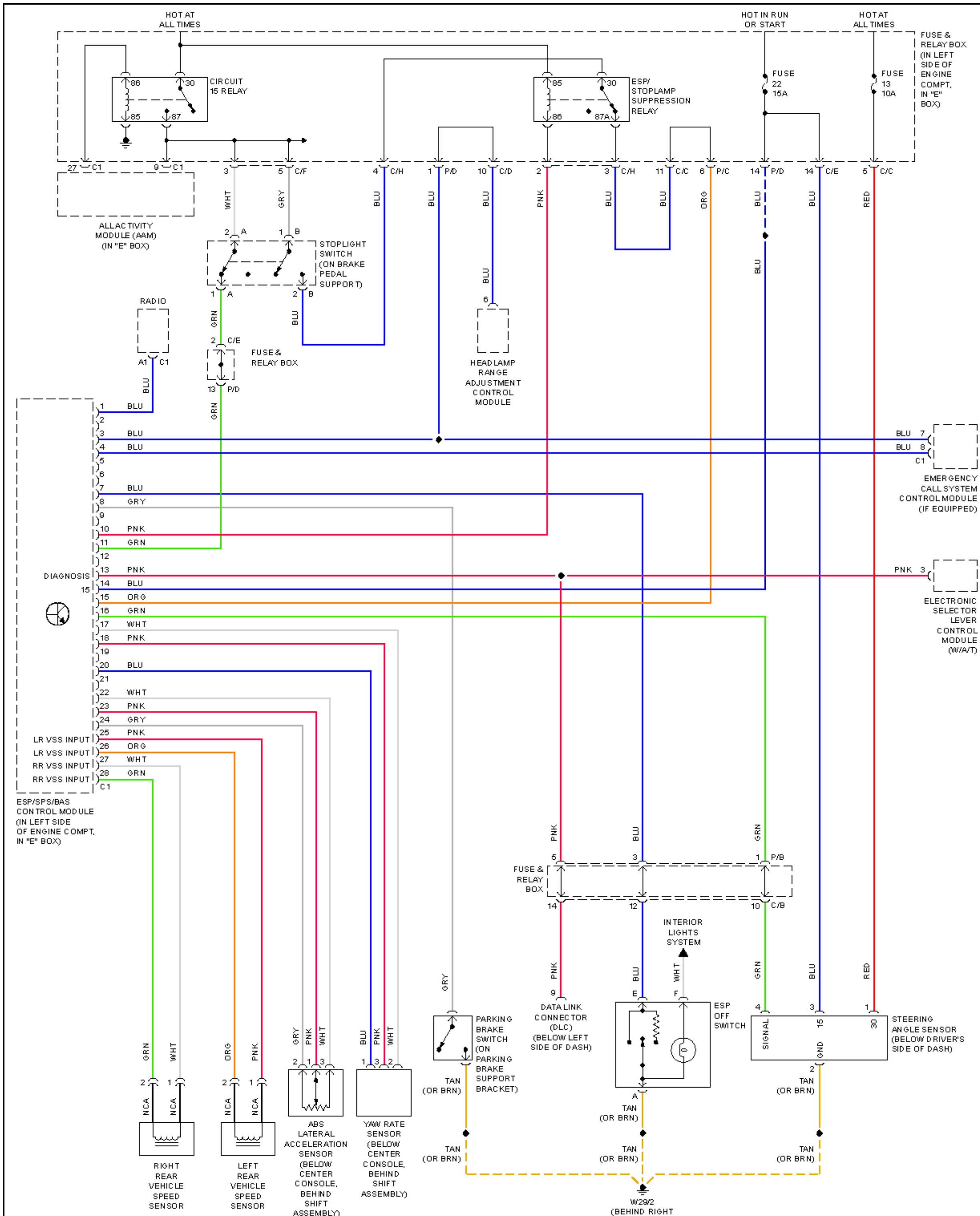
Fig. 4: Manual A/C Circuit, W/O Coolant Fan Control Module (2 of 2)

ANTI-LOCK BRAKES



ETS WARNING LAMP
BRAKE PAD WEAR INDICATOR
BAS/ESP MIL
ETS MIL
ABS MIL
INSTRUMENT CLUSTER
HOT AT ALL TIMES
HIGH-PRESSURE/ RETURN PUMP RELAY
FUSE 27 40A
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
FUSE 5 7.5A
RIGHT FRONT FOOTWELL FUSE & RELAY BOX (BELOW RIGHT SIDE OF DASH, BEHIND KICK PANEL)
COMPUTER DATA LINES SYSTEM
CAN H
CAN L
BRAKE ASSIST (BAS)
MEMBRANE TRAVEL SENSOR
RELEASE SWITCH
SOLENOID VALVE
HIGH PRESSURE/ RETURN PUMP
PRESSURE 1 SWITCHOVER
PRESSURE 1 VACUUM
PRESSURE 2 SWITCHOVER
PRESSURE 2 VACUUM
RIGHT REAR HOLD
RIGHT REAR RELEASE
LEFT REAR HOLD
LEFT REAR RELEASE
RIGHT FRONT RELEASE
LEFT FRONT RELEASE
LEFT FRONT HOLD
RIGHT FRONT HOLD
ASR/ETS/ESP HYDRAULIC UNIT (IN LEFT SIDE OF ENGINE COMPT, BELOW WASHER BOTTLE)
RF VSS INPUT
GROUND
BATTERY
LF VSS INPUT
ESP/SPS/BAS CONTROL MODULE (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
(BEHIND LEFT HEADLAMP)
FUSE & RELAY BOX
LEFT FRONT VEHICLE SPEED SENSOR
LEFT FRONT BRAKE PAD WEAR SENSOR
RIGHT FRONT BRAKE PAD WEAR SENSOR
RIGHT FRONT VEHICLE SPEED SENSOR
BRAKE FLUID LEVEL SWITCH (IN BRAKE FLUID RESERVOIR)
(BEHIND RIGHT HEADLAMP)
ESP BRAKE PRESSURE SENSOR 1 (IN LEFT REAR OF ENGINE COMPT)
ESP BRAKE PRESSURE SENSOR 2 (IN LEFT REAR OF ENGINE COMPT)
LEFT REAR BRAKE PAD WEAR SENSOR
RIGHT REAR BRAKE PAD WEAR SENSOR
157765

Fig. 5: Anti-Lock Brakes Circuit (1 of 2)



HOT AT ALL TIMES
HOT IN RUN OR START
HOT AT ALL TIMES
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
CIRCUIT 15 RELAY
ESP/ STOPLAMP SUPPRESSION RELAY
FUSE 22 15A
FUSE 13 10A
ALL ACTIVITY MODULE (AAM) (IN "E" BOX)
STOPLIGHT SWITCH (ON BRAKE PEDAL SUPPORT)
RADIO
FUSE & RELAY BOX
HEADLAMP RANGE ADJUSTMENT CONTROL MODULE
EMERGENCY CALL SYSTEM CONTROL MODULE (IF EQUIPPED)
ELECTRONIC SELECTOR LEVER CONTROL MODULE (W/A/T)
DIAGNOSIS
LR VSS INPUT
LR VSS INPUT
RR VSS INPUT
RR VSS INPUT
ESP/SPS/BAS CONTROL MODULE (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
FUSE & RELAY BOX
INTERIOR LIGHTS SYSTEM
PARKING BRAKE SWITCH (ON PARKING BRAKE SUPPORT BRACKET)
DATA LINK CONNECTOR (DLC) (BELOW LEFT SIDE OF DASH)
ESP OFF SWITCH
STEERING ANGLE SENSOR (BELOW DRIVER'S SIDE OF DASH)
RIGHT REAR VEHICLE SPEED SENSOR
LEFT REAR VEHICLE SPEED SENSOR
ABS LATERAL ACCELERATION SENSOR (BELOW CENTER CONSOLE, BEHIND SHIFT ASSEMBLY)
YAW RATE SENSOR (BELOW CENTER CONSOLE, BEHIND SHIFT ASSEMBLY)
TAN (OR BRN)
W29/2 (BEHIND RIGHT KICK PANEL)
157766

Fig. 6: Anti-Lock Brakes Circuit (2 of 2)

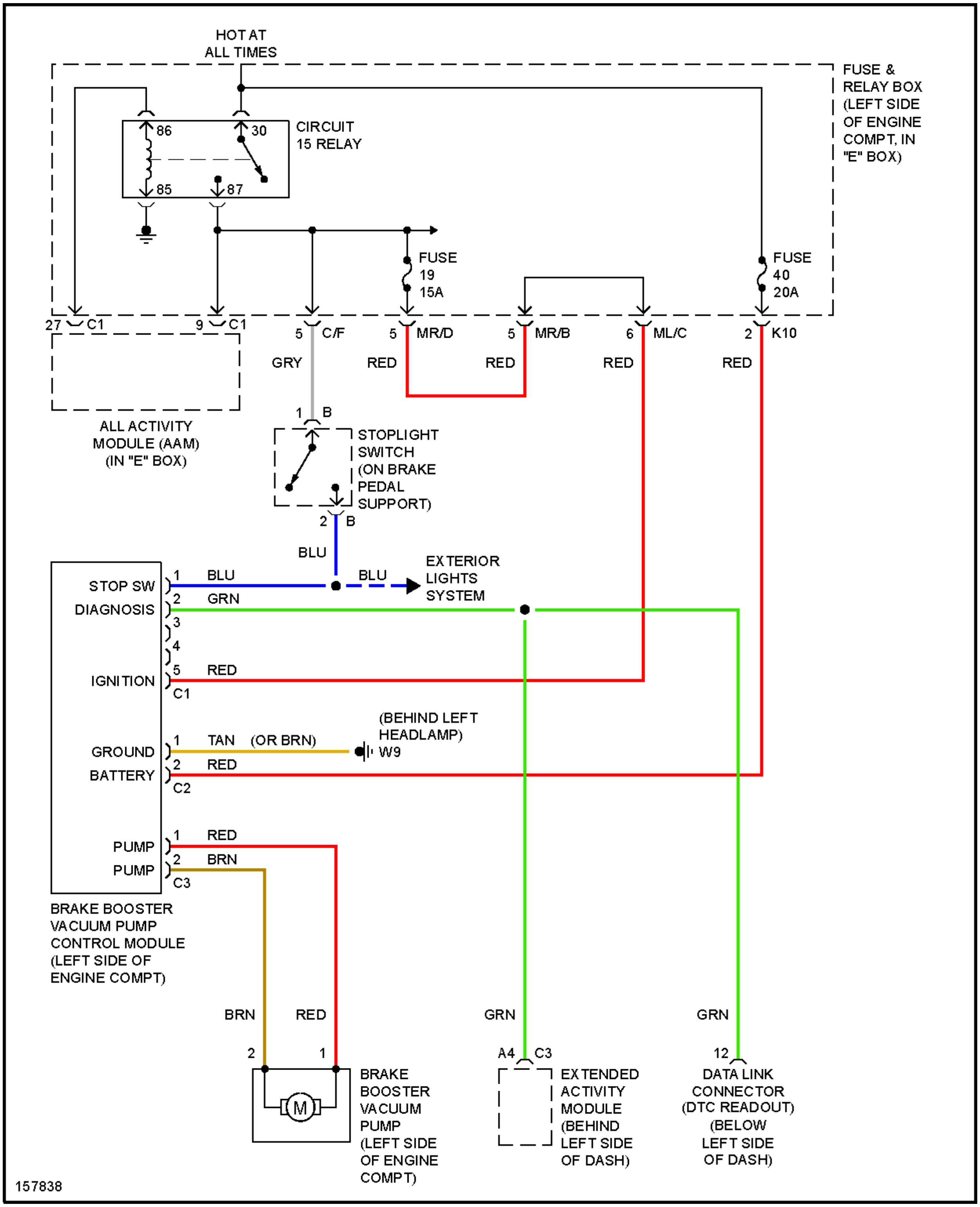
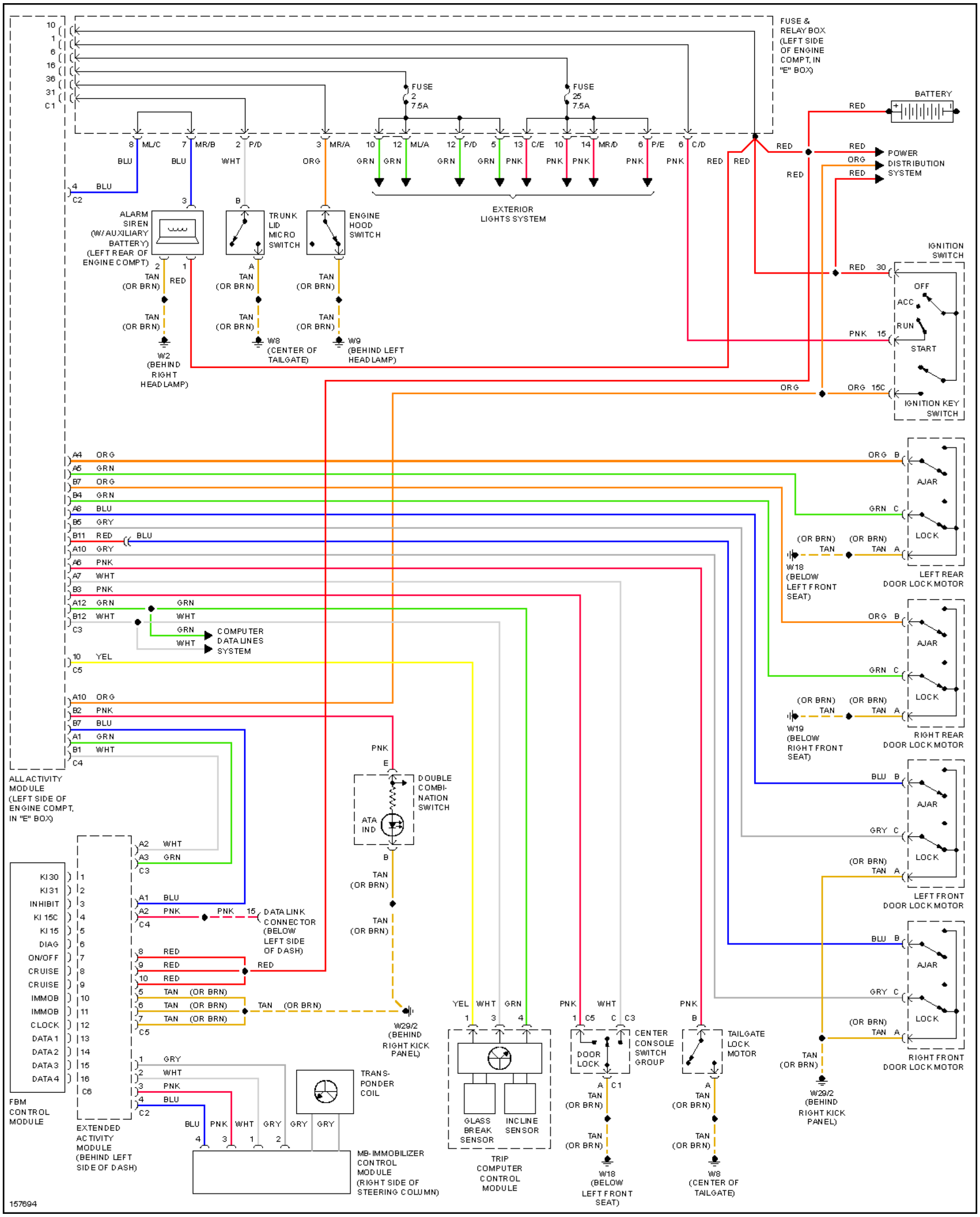

HOT AT
ALL TIMES
FUSE &
RELAY BOX
(LEFT SIDE
OF ENGINE
COMPT, IN
"E" BOX)
86
30
CIRCUIT
15 RELAY
85
87
FUSE
19
15A
FUSE
40
20A
27 C1
9 C1
5 C/F
5 MR/D
5 MR/B
6 ML/C
2 K10
GRY
RED
RED
RED
RED
ALL ACTIVITY
MODULE (AAM)
(IN "E" BOX)
1 B
STOPLIGHT
SWITCH
(ON BRAKE
PEDAL
SUPPORT)
2 B
BLU
EXTERIOR
LIGHTS
SYSTEM
STOP SW
1 BLU
BLU
DIAGNOSIS
2 GRN
3
4
IGNITION
5 RED
C1
(BEHIND LEFT
HEADLAMP)
W9
GROUND
1 TAN (OR BRN)
BATTERY
2 RED
C2
PUMP
1 RED
PUMP
2 BRN
C3
BRAKE BOOSTER
VACUUM PUMP
CONTROL MODULE
(LEFT SIDE OF
ENGINE COMPT)
BRN
RED
GRN
GRN
2
1
M
BRAKE
BOOSTER
VACUUM
PUMP
(LEFT SIDE
OF ENGINE
COMPT)
A4 C3
EXTENDED
ACTIVITY
MODULE
(BEHIND
LEFT SIDE
OF DASH)
12
DATA LINK
CONNECTOR
(DTC READOUT)
(BELOW
LEFT SIDE
OF DASH)
157838

Fig. 7: Brake Assist Circuit

ANTI-THEFT



FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
BATTERY
FUSE 2 7.5A
FUSE 25 7.5A
POWER DISTRIBUTION SYSTEM
EXTERIOR LIGHTS SYSTEM
ALARM SIREN (W/ AUXILIARY BATTERY) (LEFT REAR OF ENGINE COMPT)
TRUNK LID MICRO SWITCH
ENGINE HOOD SWITCH
W2 (BEHIND RIGHT HEADLAMP)
W8 (CENTER OF TAILGATE)
W9 (BEHIND LEFT HEADLAMP)
IGNITION SWITCH
OFF
ACC
RUN
START
IGNITION KEY SWITCH
AJAR
LOCK
W18 (BELOW LEFT FRONT SEAT)
LEFT REAR DOOR LOCK MOTOR
W19 (BELOW RIGHT FRONT SEAT)
RIGHT REAR DOOR LOCK MOTOR
LEFT FRONT DOOR LOCK MOTOR
RIGHT FRONT DOOR LOCK MOTOR
W29/2 (BEHIND RIGHT KICK PANEL)
COMPUTER DATA LINES SYSTEM
ALL ACTIVITY MODULE (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
DOUBLE COMBINATION SWITCH
ATA IND
DATA LINK CONNECTOR (BELOW LEFT SIDE OF DASH)
KI 30
KI 31
INHIBIT
KI 15C
KI 15
DIAG
ON/OFF
CRUISE
CRUISE
IMMOB
IMMOB
CLOCK
DATA 1
DATA 2
DATA 3
DATA 4
FBM CONTROL MODULE
EXTENDED ACTIVITY MODULE (BEHIND LEFT SIDE OF DASH)
TRANSPONDER COIL
MB-IMMOBILIZER CONTROL MODULE (RIGHT SIDE OF STEERING COLUMN)
GLASS BREAK SENSOR
INCLINE SENSOR
TRIP COMPUTER CONTROL MODULE
DOOR LOCK
CENTER CONSOLE SWITCH GROUP
TAILGATE LOCK MOTOR
W18 (BELOW LEFT FRONT SEAT)
W8 (CENTER OF TAILGATE)
157694

Fig. 8: Anti-theft Circuit, W/ Auxiliary Alarm

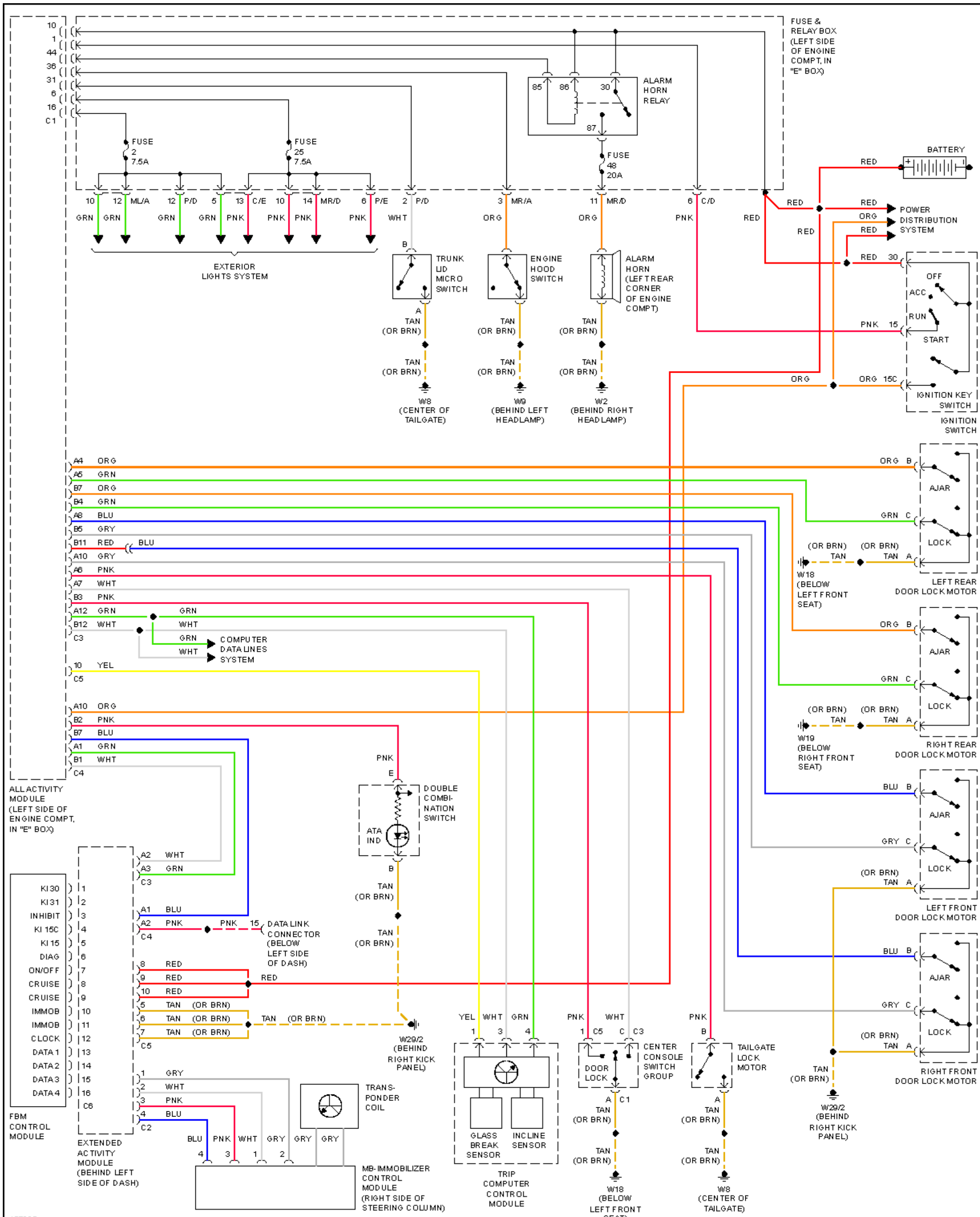
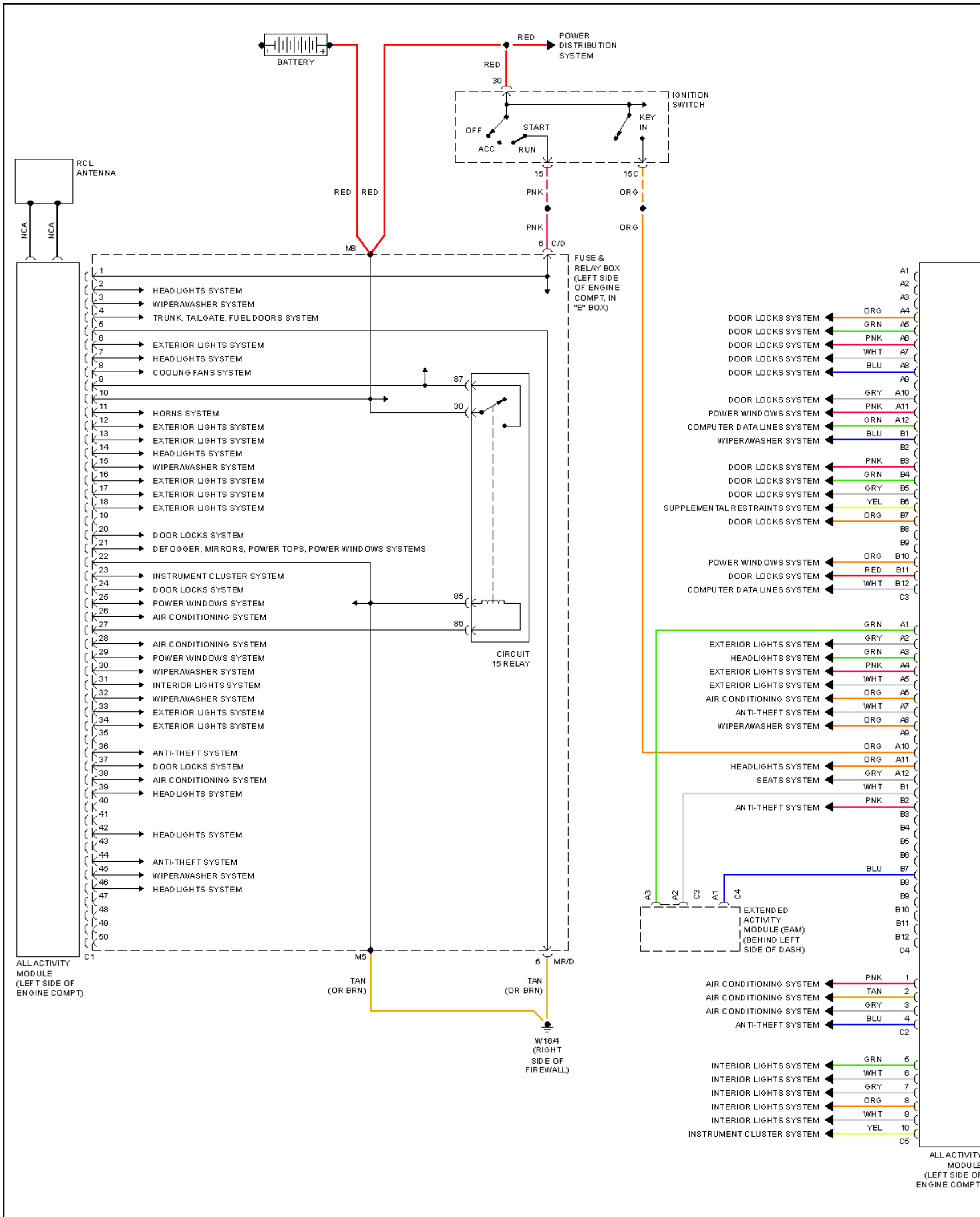

FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
ALARM HORN RELAY
FUSE 2 7.5A
FUSE 25 7.5A
FUSE 48 20A
BATTERY
POWER DISTRIBUTION SYSTEM
EXTERIOR LIGHTS SYSTEM
TRUNK LID MICRO SWITCH
ENGINE HOOD SWITCH
ALARM HORN (LEFT REAR CORNER OF ENGINE COMPT)
W8 (CENTER OF TAILGATE)
W9 (BEHIND LEFT HEADLAMP)
W2 (BEHIND RIGHT HEADLAMP)
IGNITION KEY SWITCH
IGNITION SWITCH
OFF
ACC
RUN
START
LEFT REAR DOOR LOCK MOTOR
RIGHT REAR DOOR LOCK MOTOR
LEFT FRONT DOOR LOCK MOTOR
RIGHT FRONT DOOR LOCK MOTOR
AJAR
LOCK
W18 (BELOW LEFT FRONT SEAT)
W19 (BELOW RIGHT FRONT SEAT)
COMPUTER DATA LINES SYSTEM
ALL ACTIVITY MODULE (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
DOUBLE COMBI-NATION SWITCH
ATA IND
DATA LINK CONNECTOR (BELOW LEFT SIDE OF DASH)
W29/2 (BEHIND RIGHT KICK PANEL)
FBM CONTROL MODULE
KI 30
KI 31
INHIBIT
KI 15C
KI 15
DIAG
ON/OFF
CRUISE
CRUISE
IMMOB
IMMOB
CLOCK
DATA 1
DATA 2
DATA 3
DATA 4
EXTENDED ACTIVITY MODULE (BEHIND LEFT SIDE OF DASH)
TRANS-PONDER COIL
MB-IMMOBILIZER CONTROL MODULE (RIGHT SIDE OF STEERING COLUMN)
GLASS BREAK SENSOR
INCLINE SENSOR
TRIP COMPUTER CONTROL MODULE
DOOR LOCK
CENTER CONSOLE SWITCH GROUP
TAILGATE LOCK MOTOR
157695

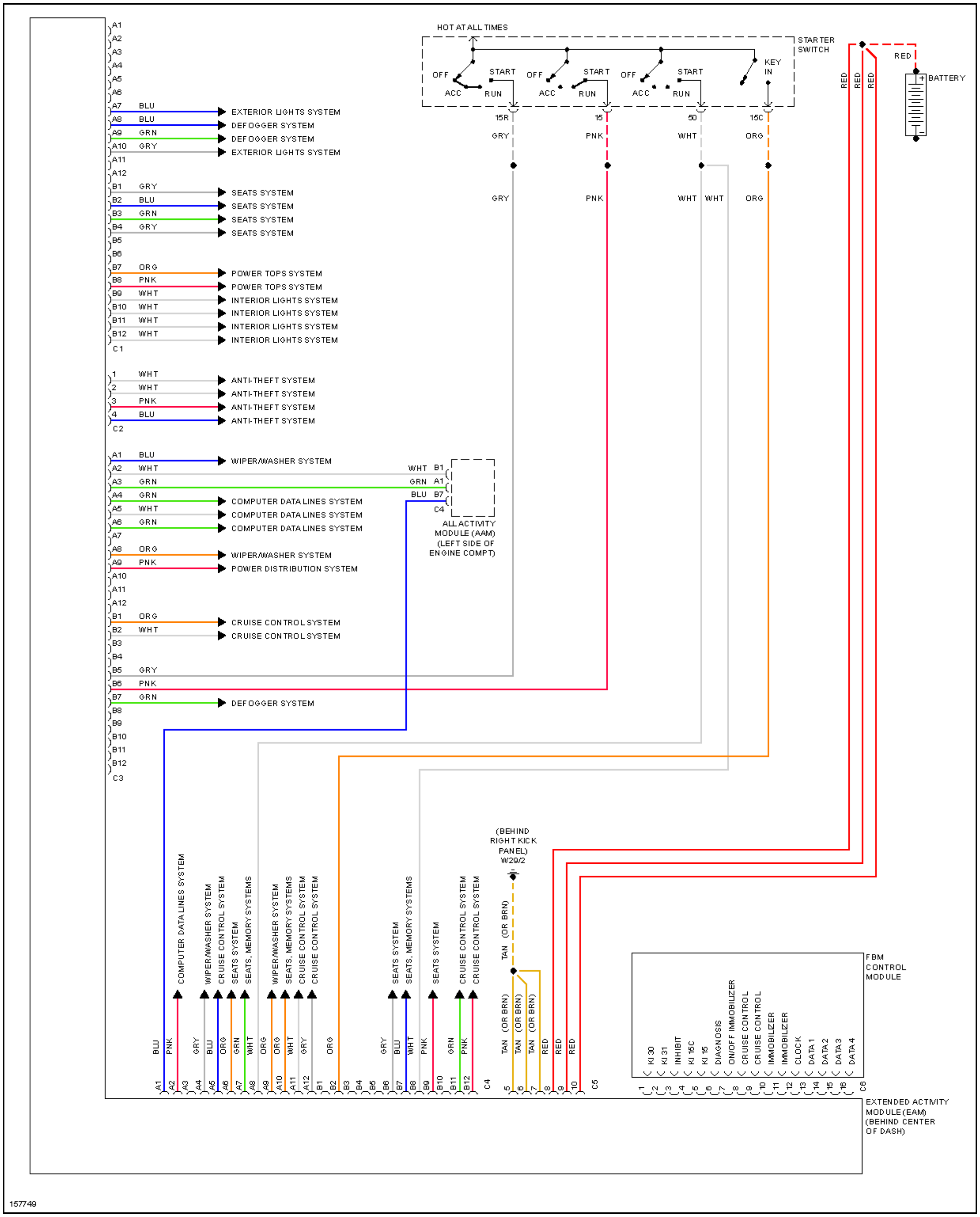
Fig. 9: Anti-theft Circuit, W/O Auxiliary Alarm

BODY CONTROL MODULES



BATTERY
RED
POWER DISTRIBUTION SYSTEM
30
IGNITION SWITCH
OFF
ACC
START
RUN
KEY IN
15
15C
PNK
ORG
RCL ANTENNA
NCA
RED
M8
6 C/D
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
HEADLIGHTS SYSTEM
WIPER/WASHER SYSTEM
TRUNK, TAILGATE, FUEL DOORS SYSTEM
EXTERIOR LIGHTS SYSTEM
COOLING FANS SYSTEM
HORNS SYSTEM
DOOR LOCKS SYSTEM
DEFOGGER, MIRRORS, POWER TOPS, POWER WINDOWS SYSTEMS
INSTRUMENT CLUSTER SYSTEM
POWER WINDOWS SYSTEM
AIR CONDITIONING SYSTEM
INTERIOR LIGHTS SYSTEM
ANTI-THEFT SYSTEM
87
30
85
86
CIRCUIT 15 RELAY
C1
ALL ACTIVITY MODULE (LEFT SIDE OF ENGINE COMPT)
M5
6 MR/D
TAN (OR BRN)
W16/4 (RIGHT SIDE OF FIREWALL)
COMPUTER DATA LINES SYSTEM
SUPPLEMENTAL RESTRAINTS SYSTEM
SEATS SYSTEM
GRN
GRY
WHT
BLU
YEL
TAN
C3
C2
C4
C5
EXTENDED ACTIVITY MODULE (EAM) (BEHIND LEFT SIDE OF DASH)
ALL ACTIVITY MODULE (LEFT SIDE OF ENGINE COMPT)
157751

Fig. 10: All Activity Module Circuit



HOT AT ALL TIMES
STARTER SWITCH
OFF
ACC
START
RUN
KEY IN
15R
15
50
15C
BATTERY
RED
EXTERIOR LIGHTS SYSTEM
DEFOGGER SYSTEM
SEATS SYSTEM
POWER TOPS SYSTEM
INTERIOR LIGHTS SYSTEM
ANTI-THEFT SYSTEM
WIPER/WASHER SYSTEM
COMPUTER DATA LINES SYSTEM
POWER DISTRIBUTION SYSTEM
CRUISE CONTROL SYSTEM
ALL ACTIVITY MODULE (AAM) (LEFT SIDE OF ENGINE COMPT)
(BEHIND RIGHT KICK PANEL) W29/2
SEATS, MEMORY SYSTEMS
FBM CONTROL MODULE
KI 30
KI 31
INHIBIT
KI 15C
KI 15
DIAGNOSIS
ON/OFF IMMOBILIZER
CRUISE CONTROL
IMMOBILIZER
CLOCK
DATA 1
DATA 2
DATA 3
DATA 4
EXTENDED ACTIVITY MODULE (EAM) (BEHIND CENTER OF DASH)
157749

Fig. 11: Extended Activity Module Circuit

COMPUTER DATA LINES

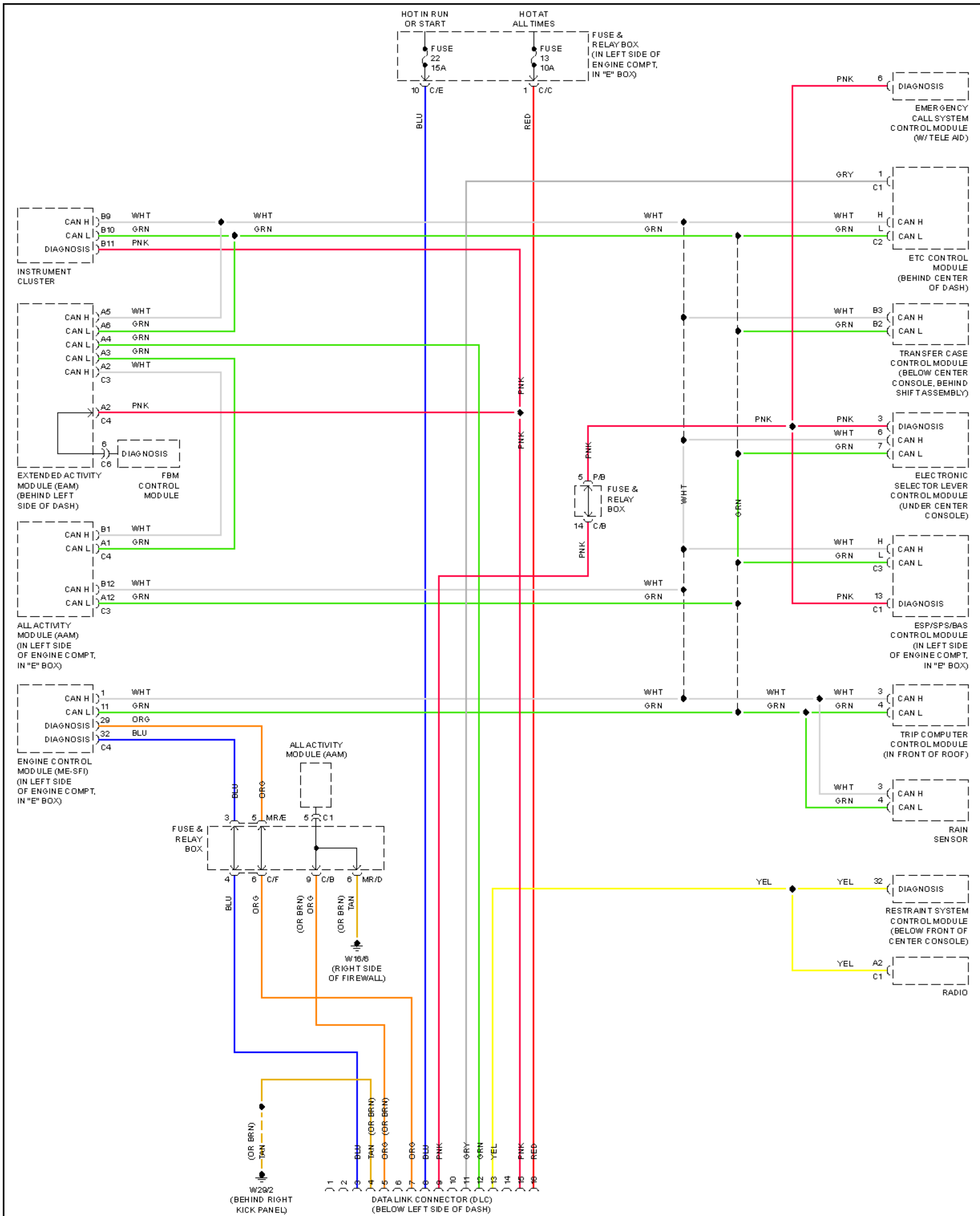

HOT IN RUN OR START
HOT AT ALL TIMES
FUSE 22 15A
FUSE 13 10A
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
10 C/E
1 C/C
BLU
RED
PNK
6
DIAGNOSIS
EMERGENCY CALL SYSTEM CONTROL MODULE (W/ TELE AID)
GRY
1
C1
CAN H
CAN L
DIAGNOSIS
B9
B10
B11
WHT
GRN
H
L
C2
INSTRUMENT CLUSTER
ETC CONTROL MODULE (BEHIND CENTER OF DASH)
A5
A6
A4
A3
A2
C3
B3
B2
TRANSFER CASE CONTROL MODULE (BELOW CENTER CONSOLE, BEHIND SHIFT ASSEMBLY)
A2
C4
6
C6
DIAGNOSIS
EXTENDED ACTIVITY MODULE (EAM) (BEHIND LEFT SIDE OF DASH)
FBM CONTROL MODULE
3
7
ELECTRONIC SELECTOR LEVER CONTROL MODULE (UNDER CENTER CONSOLE)
5 P/B
FUSE & RELAY BOX
14 C/B
B1
A1
C4
B12
A12
C3
C3
13
C1
ESP/SPS/BAS CONTROL MODULE (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
ALL ACTIVITY MODULE (AAM) (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
1
11
29
32
ORG
ENGINE CONTROL MODULE (ME-SFI) (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
TRIP COMPUTER CONTROL MODULE (IN FRONT OF ROOF)
4
RAIN SENSOR
ALL ACTIVITY MODULE (AAM)
3
5 MR/E
5 C1
FUSE & RELAY BOX
4
6 C/F
9 C/B
6 MR/D
(OR BRN)
TAN
W16/6 (RIGHT SIDE OF FIREWALL)
YEL
32
RESTRAINT SYSTEM CONTROL MODULE (BELOW FRONT OF CENTER CONSOLE)
A2
C1
RADIO
W29/2 (BEHIND RIGHT KICK PANEL)
DATA LINK CONNECTOR (DLC) (BELOW LEFT SIDE OF DASH)
157770

Fig. 12: Computer Data Lines Circuit

COOLING FAN

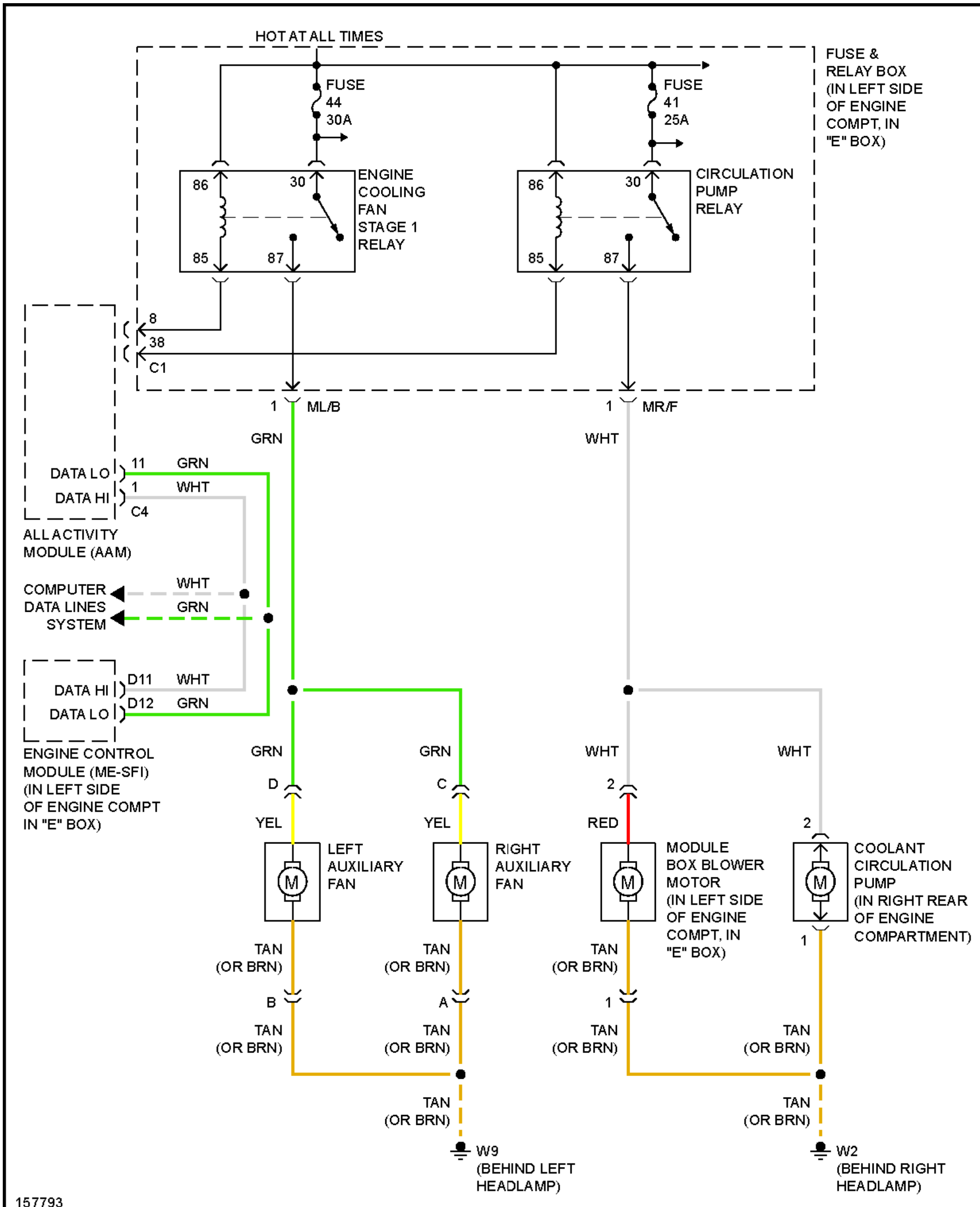

HOT AT ALL TIMES
FUSE 44 30A
FUSE 41 25A
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
86
30
85
87
ENGINE COOLING FAN STAGE 1 RELAY
CIRCULATION PUMP RELAY
8
38
C1
1
ML/B
MR/F
GRN
WHT
DATA LO
DATA HI
11
C4
ALL ACTIVITY MODULE (AAM)
COMPUTER DATA LINES SYSTEM
D11
D12
ENGINE CONTROL MODULE (ME-SFI) (IN LEFT SIDE OF ENGINE COMPT IN "E" BOX)
D
C
2
YEL
RED
LEFT AUXILIARY FAN
RIGHT AUXILIARY FAN
MODULE BOX BLOWER MOTOR (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
COOLANT CIRCULATION PUMP (IN RIGHT REAR OF ENGINE COMPARTMENT)
M
TAN (OR BRN)
B
A
W9 (BEHIND LEFT HEADLAMP)
W2 (BEHIND RIGHT HEADLAMP)
157793

Fig. 13: Cooling Fan Circuit

CRUISE CONTROL

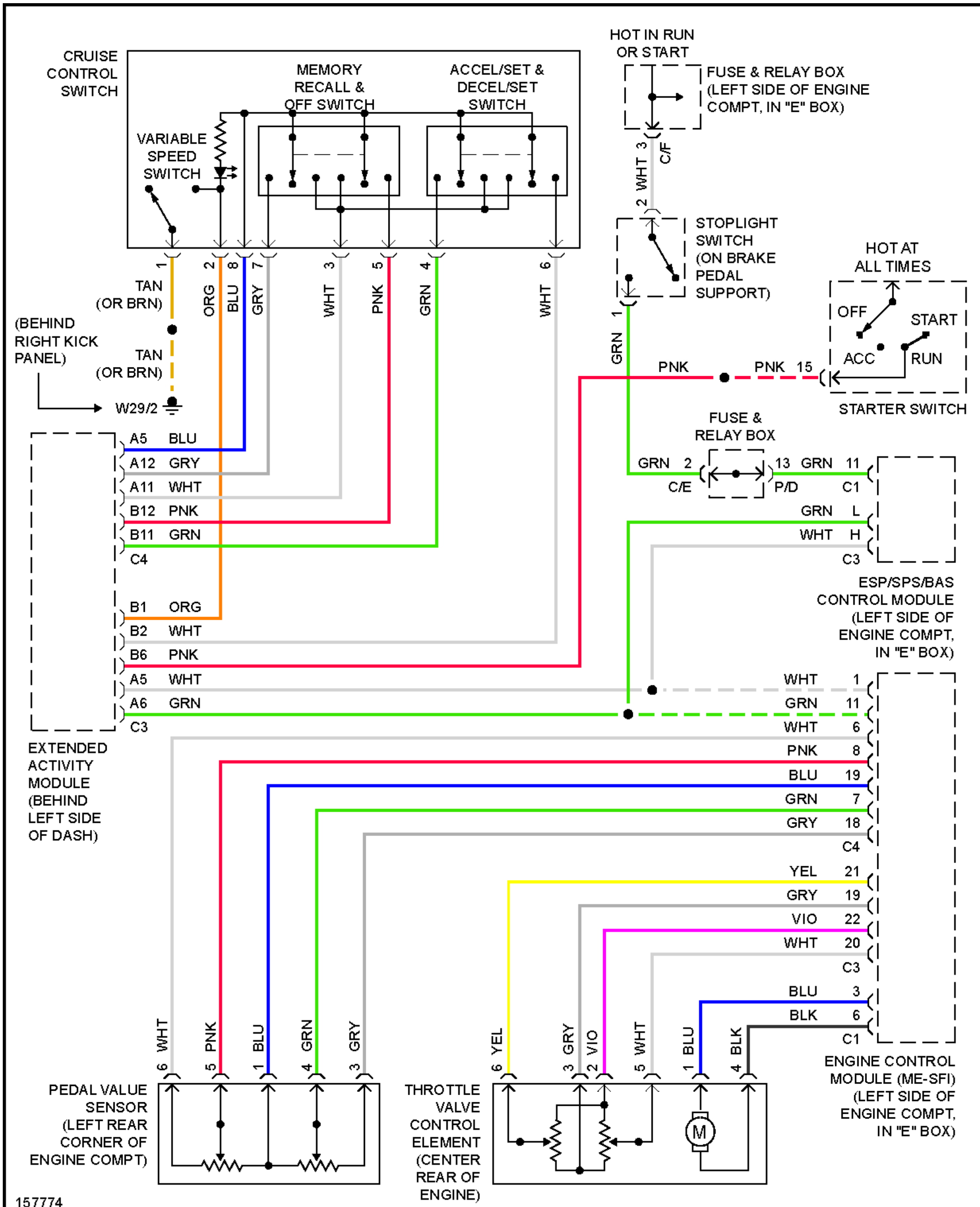

CRUISE CONTROL SWITCH
MEMORY RECALL & OFF SWITCH
ACCEL/SET & DECEL/SET SWITCH
VARIABLE SPEED SWITCH
HOT IN RUN OR START
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
STOPLIGHT SWITCH (ON BRAKE PEDAL SUPPORT)
HOT AT ALL TIMES
OFF
START
ACC
RUN
STARTER SWITCH
(BEHIND RIGHT KICK PANEL)
TAN (OR BRN)
W29/2
FUSE & RELAY BOX
ESP/SPS/BAS CONTROL MODULE (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
EXTENDED ACTIVITY MODULE (BEHIND LEFT SIDE OF DASH)
ENGINE CONTROL MODULE (ME-SFI) (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
PEDAL VALUE SENSOR (LEFT REAR CORNER OF ENGINE COMPT)
THROTTLE VALVE CONTROL ELEMENT (CENTER REAR OF ENGINE)
157774

Fig. 14: Cruise Control Circuit

DEFOGGERS

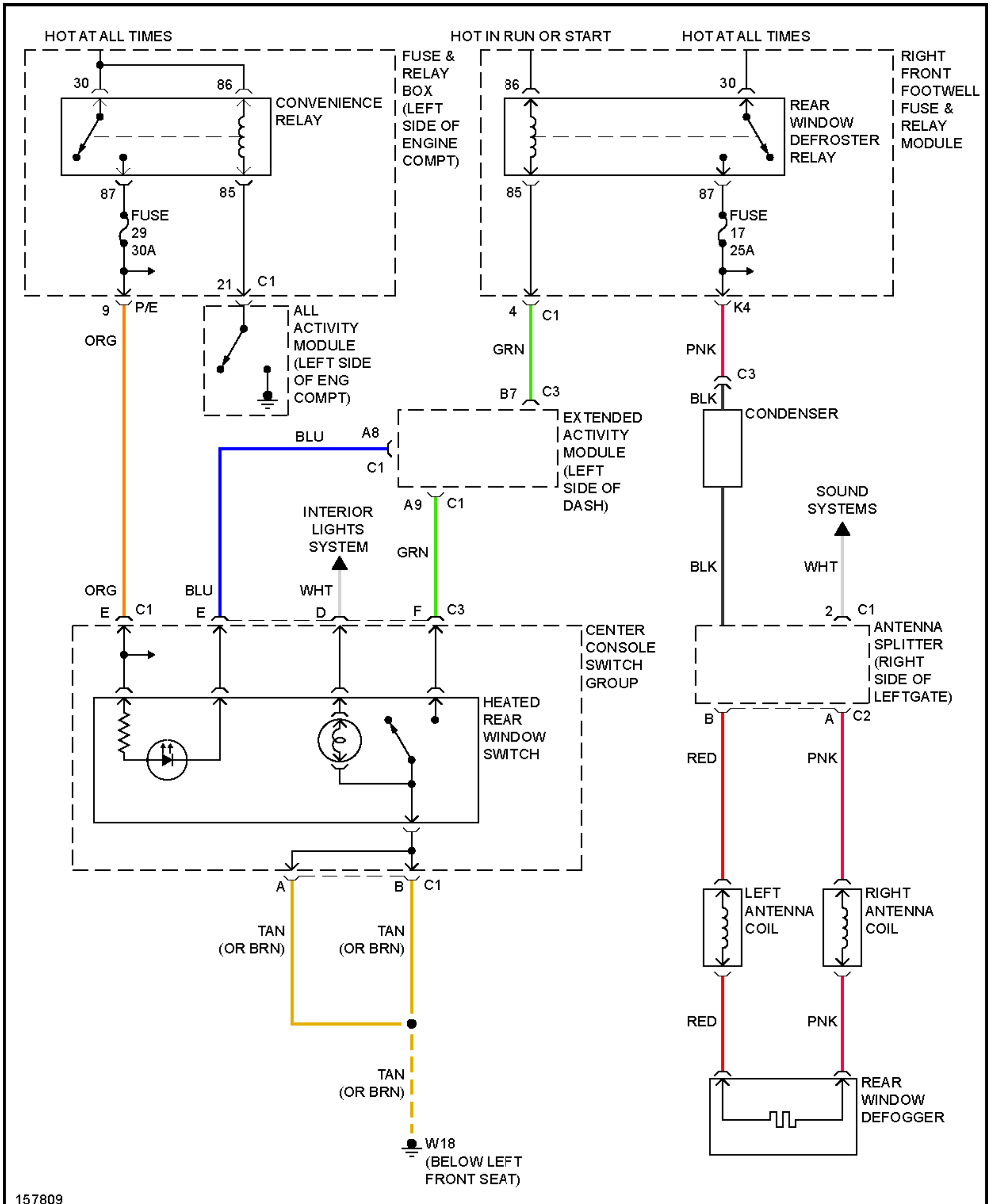
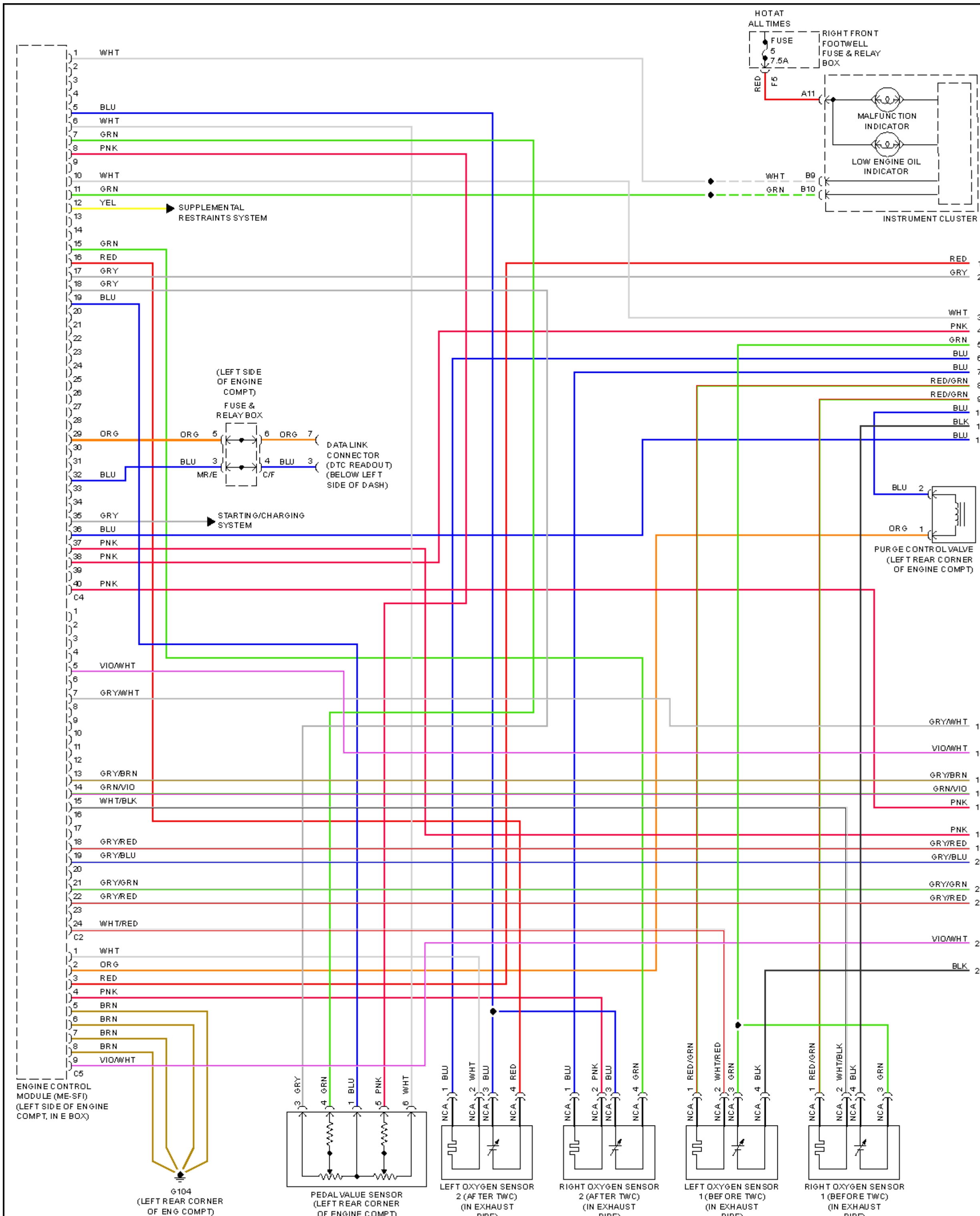

HOT AT ALL TIMES
HOT IN RUN OR START
HOT AT ALL TIMES
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
CONVENIENCE RELAY
30
86
87
85
FUSE 29 30A
21
C1
9
P/E
ORG
ALL ACTIVITY MODULE (LEFT SIDE OF ENG COMPT)
RIGHT FRONT FOOTWELL FUSE & RELAY MODULE
REAR WINDOW DEFROSTER RELAY
FUSE 17 25A
4
K4
GRN
PNK
C3
BLK
B7
CONDENSER
EXTENDED ACTIVITY MODULE (LEFT SIDE OF DASH)
BLU
A8
A9
INTERIOR LIGHTS SYSTEM
SOUND SYSTEMS
WHT
E
D
F
CENTER CONSOLE SWITCH GROUP
HEATED REAR WINDOW SWITCH
ANTENNA SPLITTER (RIGHT SIDE OF LEFTGATE)
2
C2
B
A
RED
LEFT ANTENNA COIL
RIGHT ANTENNA COIL
REAR WINDOW DEFOGGER
TAN (OR BRN)
W18 (BELOW LEFT FRONT SEAT)
157809

Fig. 15: Defoggers Circuit

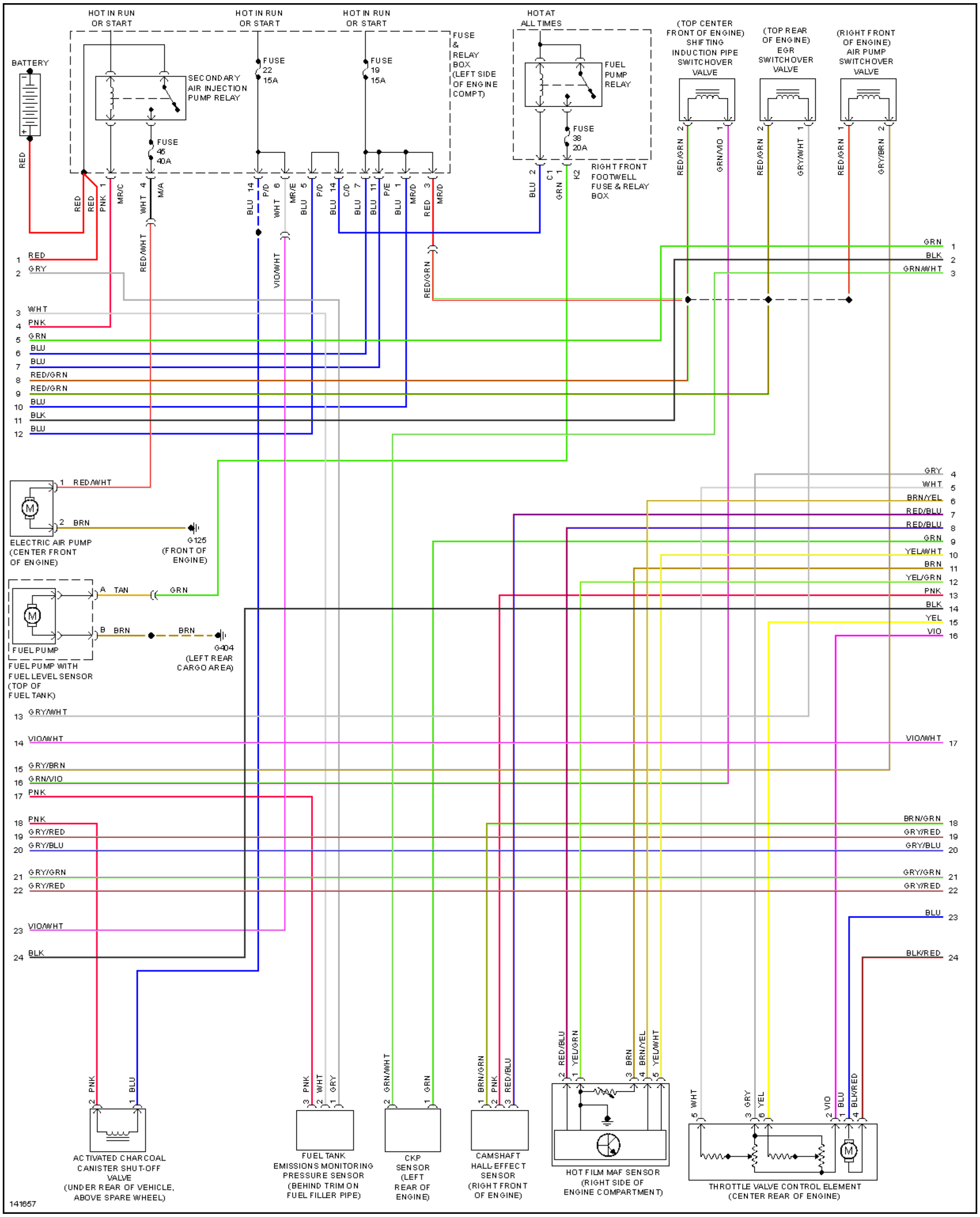
ENGINE PERFORMANCE

3.2L



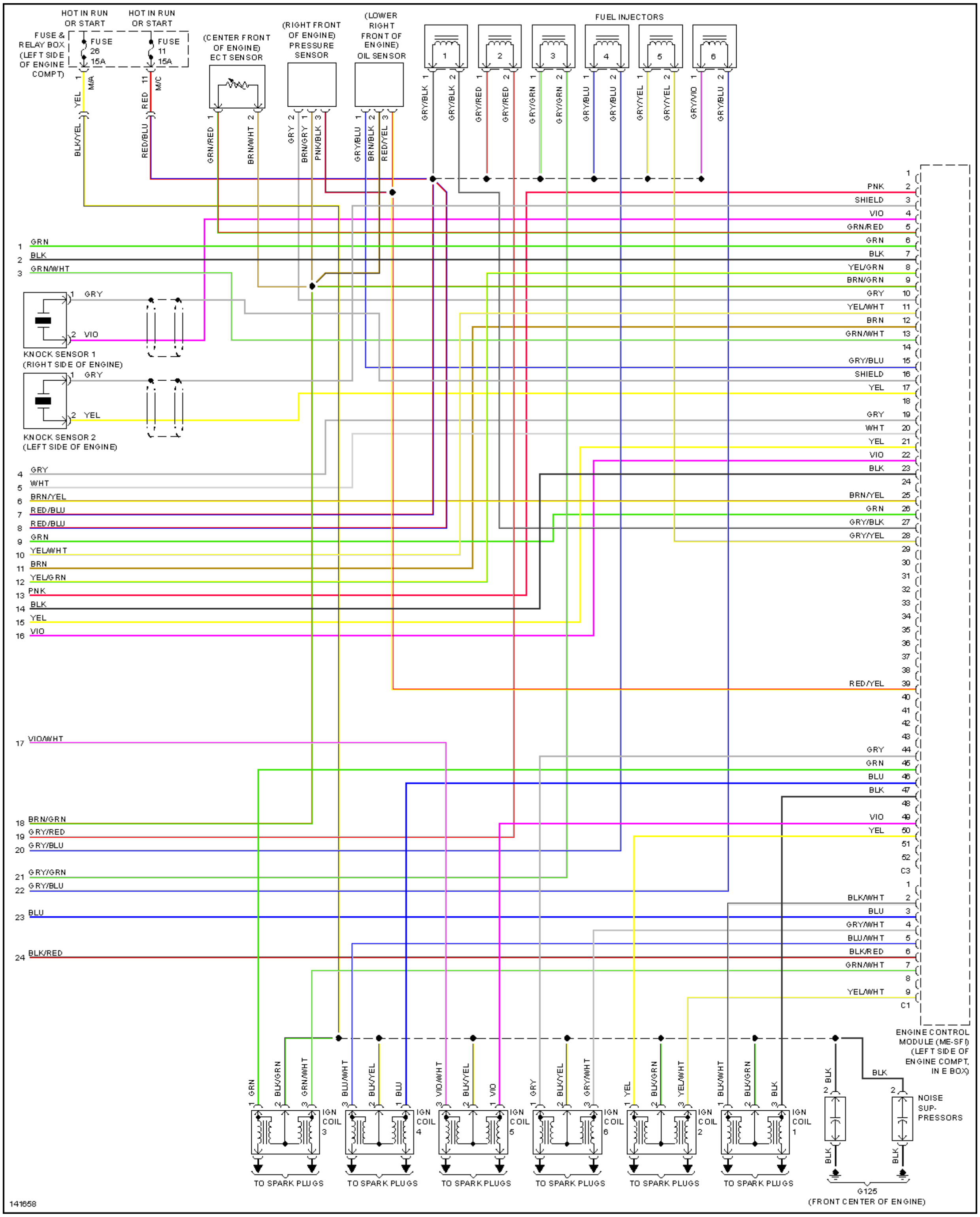
HOT AT ALL TIMES
FUSE 5 7.5A
RIGHT FRONT FOOTWELL FUSE & RELAY BOX
MALFUNCTION INDICATOR
LOW ENGINE OIL INDICATOR
INSTRUMENT CLUSTER
SUPPLEMENTAL RESTRAINTS SYSTEM
(LEFT SIDE OF ENGINE COMPT) FUSE & RELAY BOX
DATA LINK CONNECTOR (DTC READOUT) (BELOW LEFT SIDE OF DASH)
STARTING/CHARGING SYSTEM
PURGE CONTROL VALVE (LEFT REAR CORNER OF ENGINE COMPT)
ENGINE CONTROL MODULE (ME-SFI) (LEFT SIDE OF ENGINE COMPT, IN E BOX)
G104 (LEFT REAR CORNER OF ENG COMPT)
PEDAL VALUE SENSOR (LEFT REAR CORNER OF ENGINE COMPT)
LEFT OXYGEN SENSOR 2 (AFTER TWC) (IN EXHAUST PIPE)
RIGHT OXYGEN SENSOR 2 (AFTER TWC) (IN EXHAUST PIPE)
LEFT OXYGEN SENSOR 1 (BEFORE TWC) (IN EXHAUST PIPE)
RIGHT OXYGEN SENSOR 1 (BEFORE TWC) (IN EXHAUST PIPE)
141656

Fig. 16: 3.2L, Engine Performance Circuit (1 of 3)



HOT IN RUN OR START
HOT AT ALL TIMES
BATTERY
SECONDARY AIR INJECTION PUMP RELAY
FUSE 45 40A
FUSE 22 15A
FUSE 19 15A
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
FUEL PUMP RELAY
FUSE 38 20A
RIGHT FRONT FOOTWELL FUSE & RELAY BOX
(TOP CENTER FRONT OF ENGINE) SHIFTING INDUCTION PIPE SWITCHOVER VALVE
(TOP REAR OF ENGINE) EGR SWITCHOVER VALVE
(RIGHT FRONT OF ENGINE) AIR PUMP SWITCHOVER VALVE
ELECTRIC AIR PUMP (CENTER FRONT OF ENGINE)
G125 (FRONT OF ENGINE)
FUEL PUMP
FUEL PUMP WITH FUEL LEVEL SENSOR (TOP OF FUEL TANK)
G404 (LEFT REAR CARGO AREA)
ACTIVATED CHARCOAL CANISTER SHUT-OFF VALVE (UNDER REAR OF VEHICLE, ABOVE SPARE WHEEL)
FUEL TANK EMISSIONS MONITORING PRESSURE SENSOR (BEHIND TRIM ON FUEL FILLER PIPE)
CKP SENSOR (LEFT REAR OF ENGINE)
CAMSHAFT HALL-EFFECT SENSOR (RIGHT FRONT OF ENGINE)
HOT FILM MAF SENSOR (RIGHT SIDE OF ENGINE COMPARTMENT)
THROTTLE VALVE CONTROL ELEMENT (CENTER REAR OF ENGINE)
141657

Fig. 17: 3.2L, Engine Performance Circuit (2 of 3)



HOT IN RUN OR START
HOT IN RUN OR START
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
FUSE 26 15A
FUSE 11 15A
(CENTER FRONT OF ENGINE) ECT SENSOR
(RIGHT FRONT OF ENGINE) PRESSURE SENSOR
(LOWER RIGHT FRONT OF ENGINE) OIL SENSOR
FUEL INJECTORS
KNOCK SENSOR 1 (RIGHT SIDE OF ENGINE)
KNOCK SENSOR 2 (LEFT SIDE OF ENGINE)
ENGINE CONTROL MODULE (ME-SFI) (LEFT SIDE OF ENGINE COMPT, IN E BOX)
IGN COIL 3
IGN COIL 4
IGN COIL 5
IGN COIL 6
IGN COIL 2
IGN COIL 1
TO SPARK PLUGS
NOISE SUP-PRESSORS
G125 (FRONT CENTER OF ENGINE)
141658

Fig. 18: 3.2L, Engine Performance Circuit (3 of 3)

EXTERIOR LIGHTS

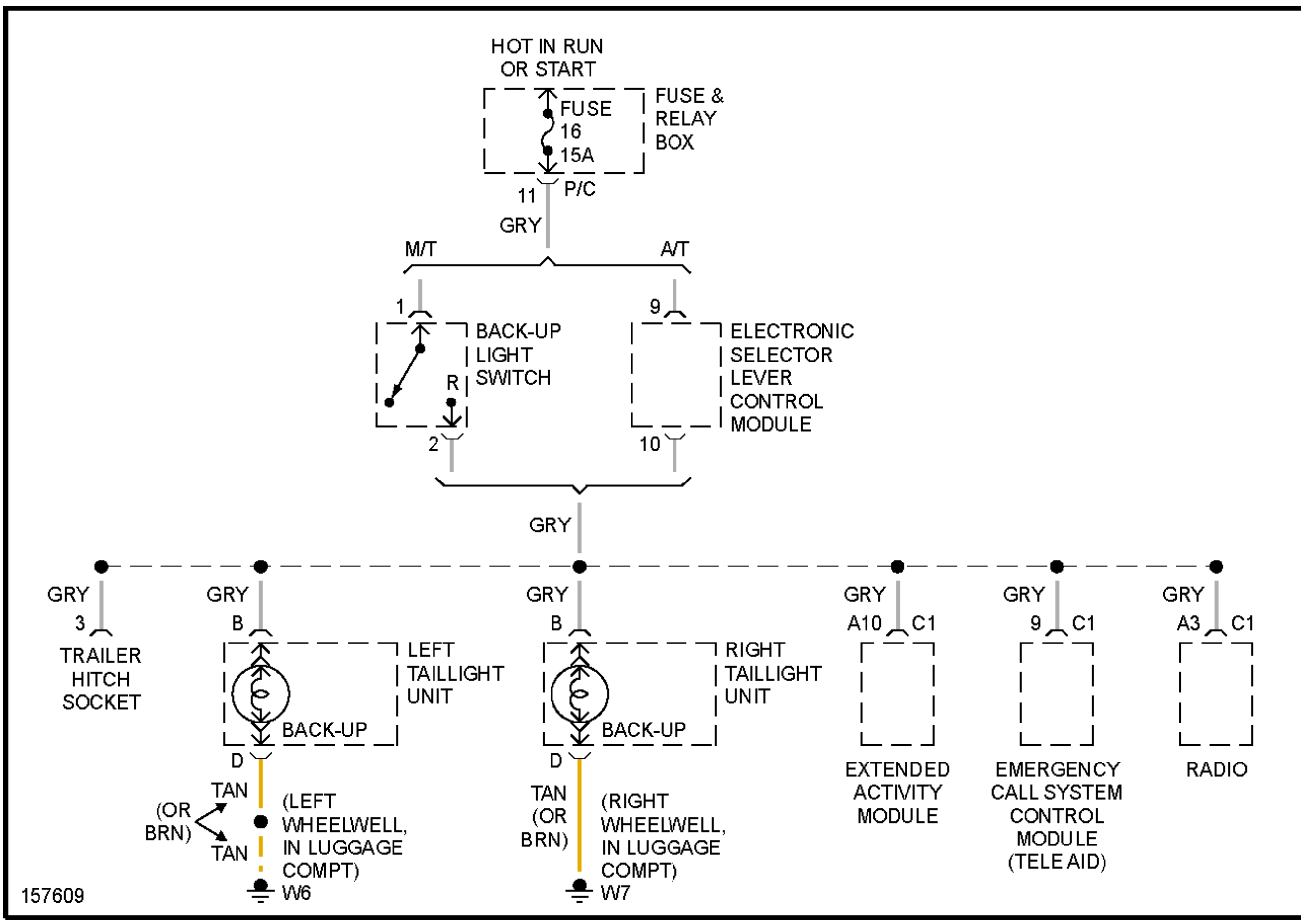
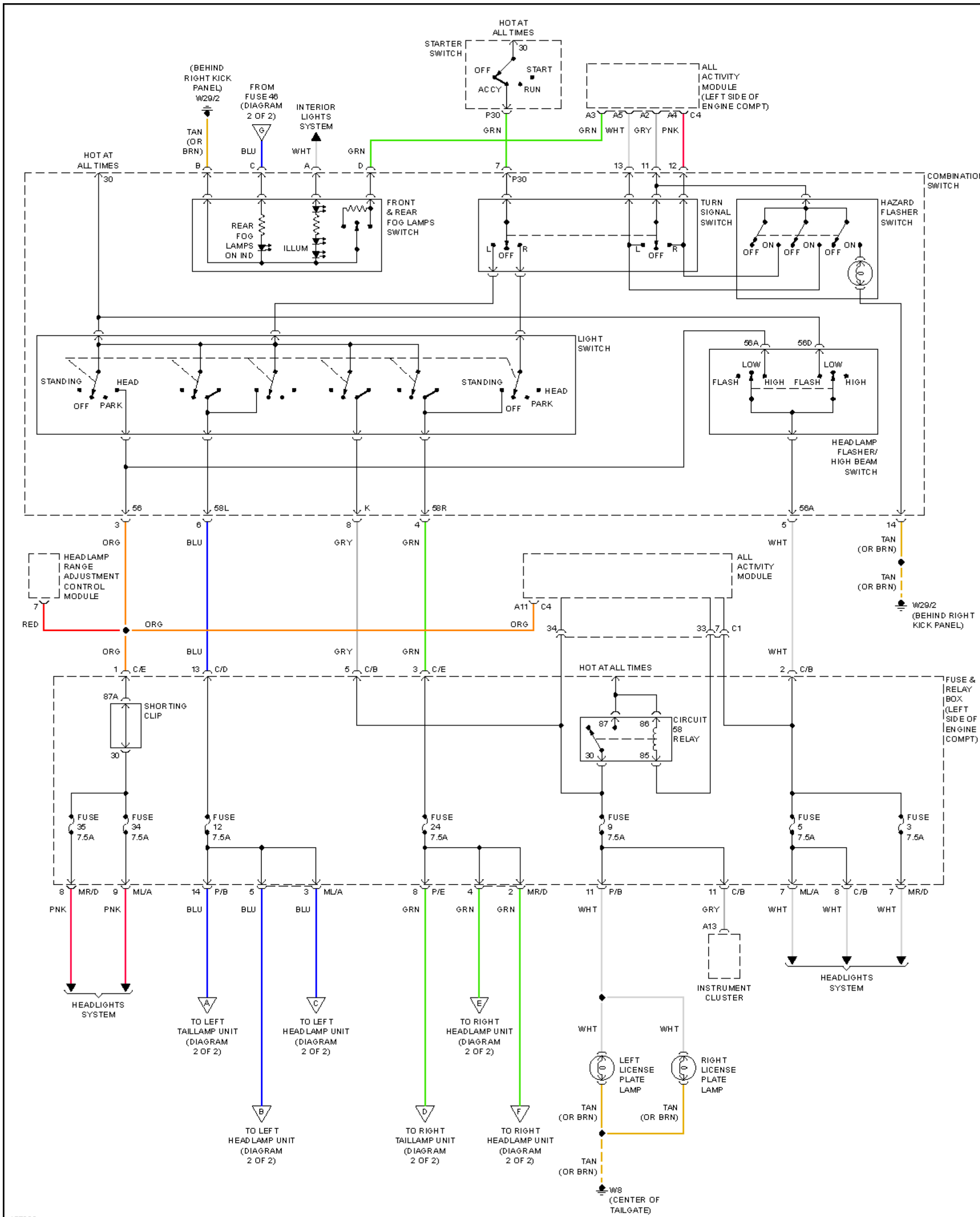
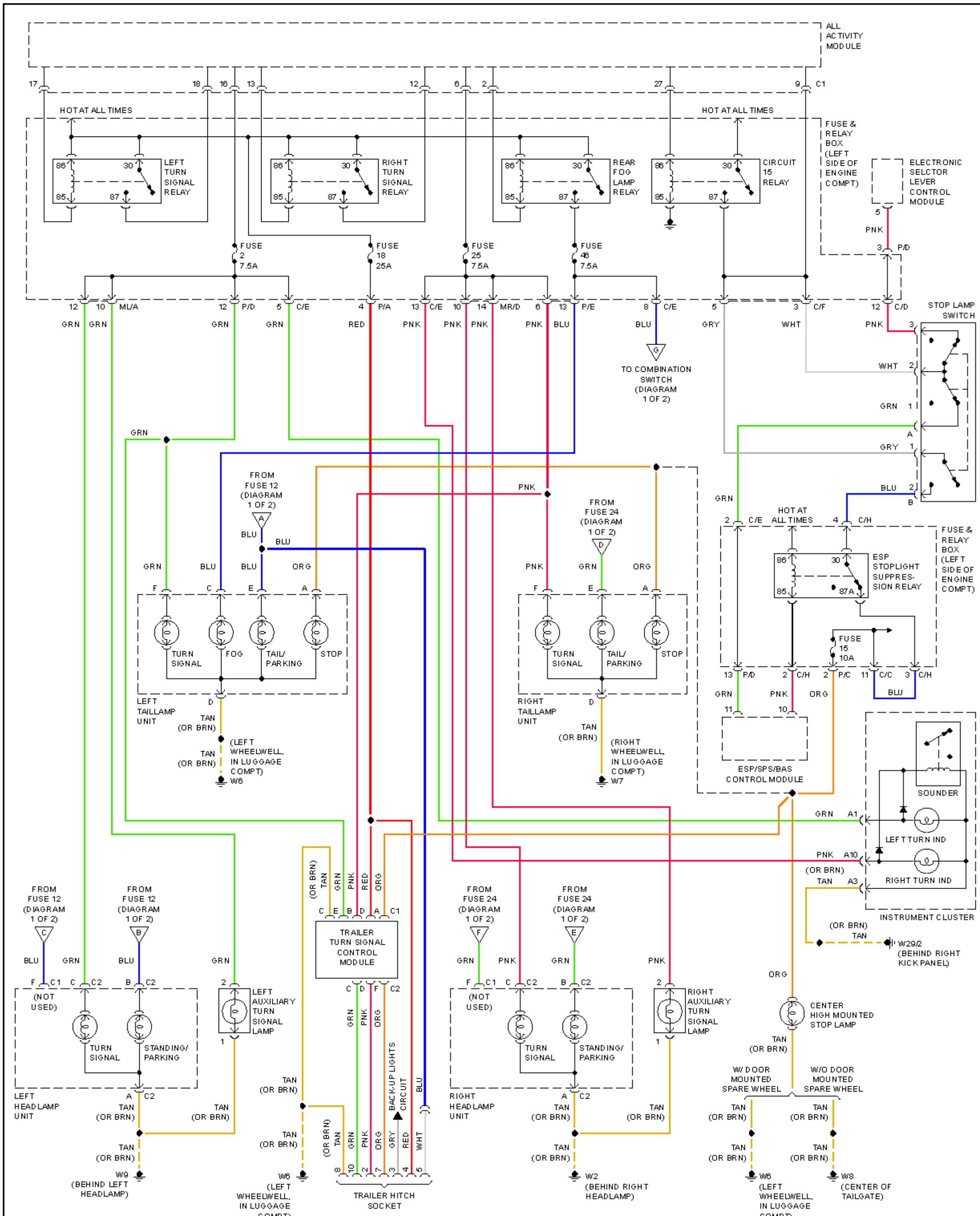

HOT IN RUN
OR START
FUSE
16
15A
FUSE &
RELAY
BOX
11
P/C
GRY
M/T
A/T
1
BACK-UP
LIGHT
SWITCH
R
2
9
ELECTRONIC
SELECTOR
LEVER
CONTROL
MODULE
10
GRY
GRY
3
TRAILER
HITCH
SOCKET
GRY
B
LEFT
TAILLIGHT
UNIT
BACK-UP
D
TAN
(OR
BRN)
TAN
(LEFT
WHEELWELL,
IN LUGGAGE
COMPT)
W6
GRY
B
RIGHT
TAILLIGHT
UNIT
BACK-UP
D
TAN
(OR
BRN)
(RIGHT
WHEELWELL,
IN LUGGAGE
COMPT)
W7
GRY
A10
C1
EXTENDED
ACTIVITY
MODULE
GRY
9
C1
EMERGENCY
CALL SYSTEM
CONTROL
MODULE
(TELE AID)
GRY
A3
C1
RADIO
157609

Fig. 19: Back-up Lamps Circuit



HOT AT ALL TIMES
STARTER SWITCH
OFF
START
ACCY
RUN
ALL ACTIVITY MODULE (LEFT SIDE OF ENGINE COMPT)
(BEHIND RIGHT KICK PANEL) W29/2
FROM FUSE 46 (DIAGRAM 2 OF 2)
INTERIOR LIGHTS SYSTEM
COMBINATION SWITCH
FRONT & REAR FOG LAMPS SWITCH
REAR FOG LAMPS ON IND
ILLUM
TURN SIGNAL SWITCH
HAZARD FLASHER SWITCH
LIGHT SWITCH
STANDING
HEAD
PARK
HEADLAMP FLASHER/ HIGH BEAM SWITCH
LOW
FLASH
HIGH
HEADLAMP RANGE ADJUSTMENT CONTROL MODULE
ALL ACTIVITY MODULE
W29/2 (BEHIND RIGHT KICK PANEL)
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
SHORTING CLIP
HOT AT ALL TIMES
CIRCUIT 58 RELAY
FUSE 35 7.5A
FUSE 34 7.5A
FUSE 12 7.5A
FUSE 24 7.5A
FUSE 9 7.5A
FUSE 5 7.5A
FUSE 3 7.5A
HEADLIGHTS SYSTEM
TO LEFT TAILLAMP UNIT (DIAGRAM 2 OF 2)
TO LEFT HEADLAMP UNIT (DIAGRAM 2 OF 2)
TO RIGHT HEADLAMP UNIT (DIAGRAM 2 OF 2)
TO RIGHT TAILLAMP UNIT (DIAGRAM 2 OF 2)
INSTRUMENT CLUSTER
HEADLIGHTS SYSTEM
LEFT LICENSE PLATE LAMP
RIGHT LICENSE PLATE LAMP
W8 (CENTER OF TAILGATE)
157639

Fig. 20: Exterior Lights Circuit (1 of 2)



ALL ACTIVITY MODULE
HOT AT ALL TIMES
LEFT TURN SIGNAL RELAY
RIGHT TURN SIGNAL RELAY
REAR FOG LAMP RELAY
CIRCUIT 15 RELAY
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
ELECTRONIC SELECTOR LEVER CONTROL MODULE
FUSE 2 7.5A
FUSE 18 25A
FUSE 25 7.5A
FUSE 46 7.5A
STOP LAMP SWITCH
TO COMBINATION SWITCH (DIAGRAM 1 OF 2)
FROM FUSE 12 (DIAGRAM 1 OF 2)
FROM FUSE 24 (DIAGRAM 1 OF 2)
TURN SIGNAL
FOG
TAIL/ PARKING
STOP
LEFT TAILLAMP UNIT
RIGHT TAILLAMP UNIT
(LEFT WHEELWELL, IN LUGGAGE COMPT)
(RIGHT WHEELWELL, IN LUGGAGE COMPT)
ESP STOPLIGHT SUPPRESSION RELAY
FUSE 15 10A
ESP/SPS/BAS CONTROL MODULE
SOUNDER
LEFT TURN IND
RIGHT TURN IND
INSTRUMENT CLUSTER
W29/2 (BEHIND RIGHT KICK PANEL)
TRAILER TURN SIGNAL CONTROL MODULE
BACK-UP LIGHTS CIRCUIT
TRAILER HITCH SOCKET
(NOT USED)
STANDING/ PARKING
LEFT HEADLAMP UNIT
RIGHT HEADLAMP UNIT
LEFT AUXILIARY TURN SIGNAL LAMP
RIGHT AUXILIARY TURN SIGNAL LAMP
W9 (BEHIND LEFT HEADLAMP)
W2 (BEHIND RIGHT HEADLAMP)
CENTER HIGH MOUNTED STOP LAMP
W/ DOOR MOUNTED SPARE WHEEL
W/O DOOR MOUNTED SPARE WHEEL
W8 (CENTER OF TAILGATE)
157640

Fig. 21: Exterior Lights Circuit (2 of 2)

GROUND DISTRIBUTION

2001 Mercedes-Benz ML320

2001 SYSTEM WIRING DIAGRAMS Mercedes-Benz - ML320

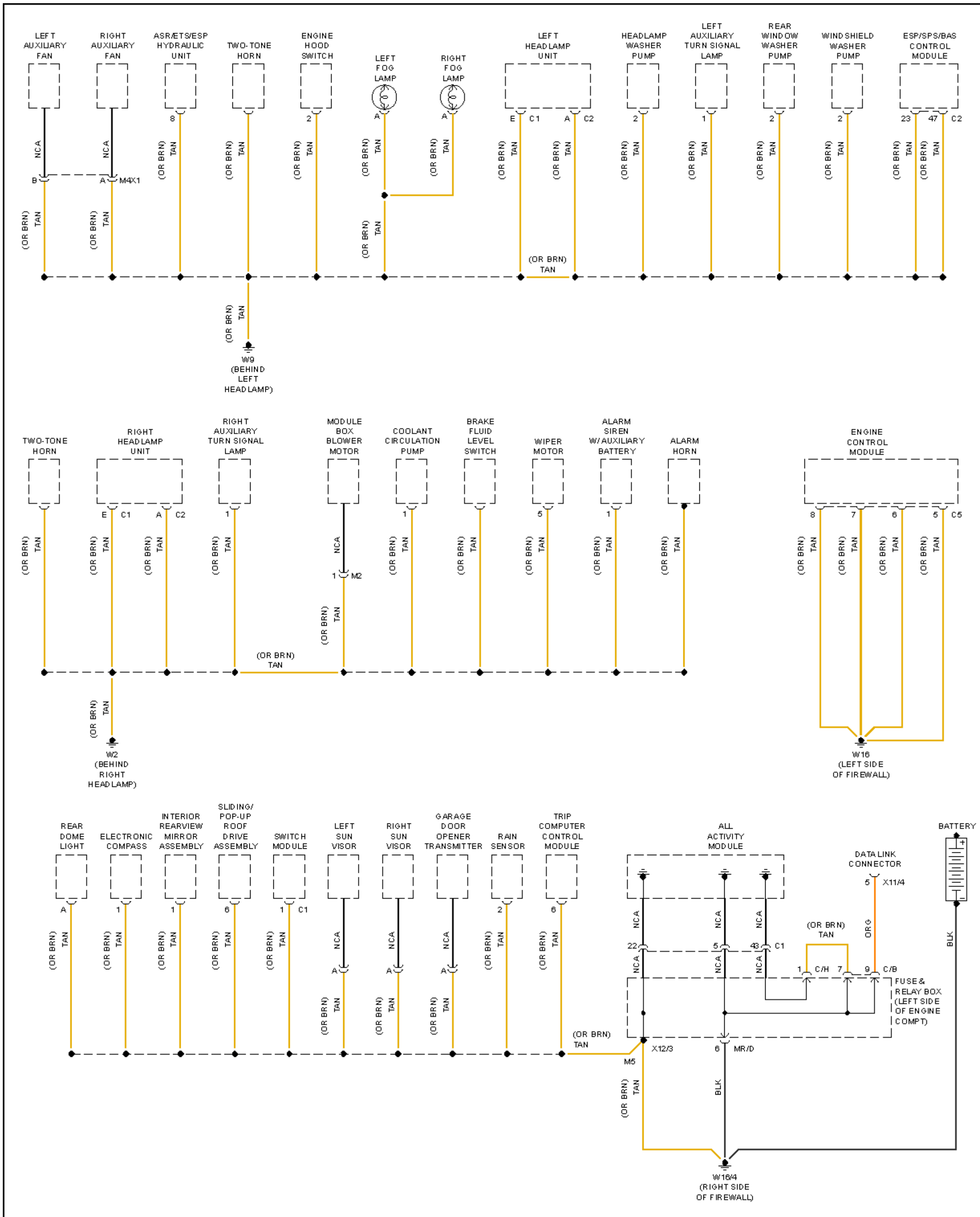


Fig. 22: Ground Distribution Circuit (1 of 3)

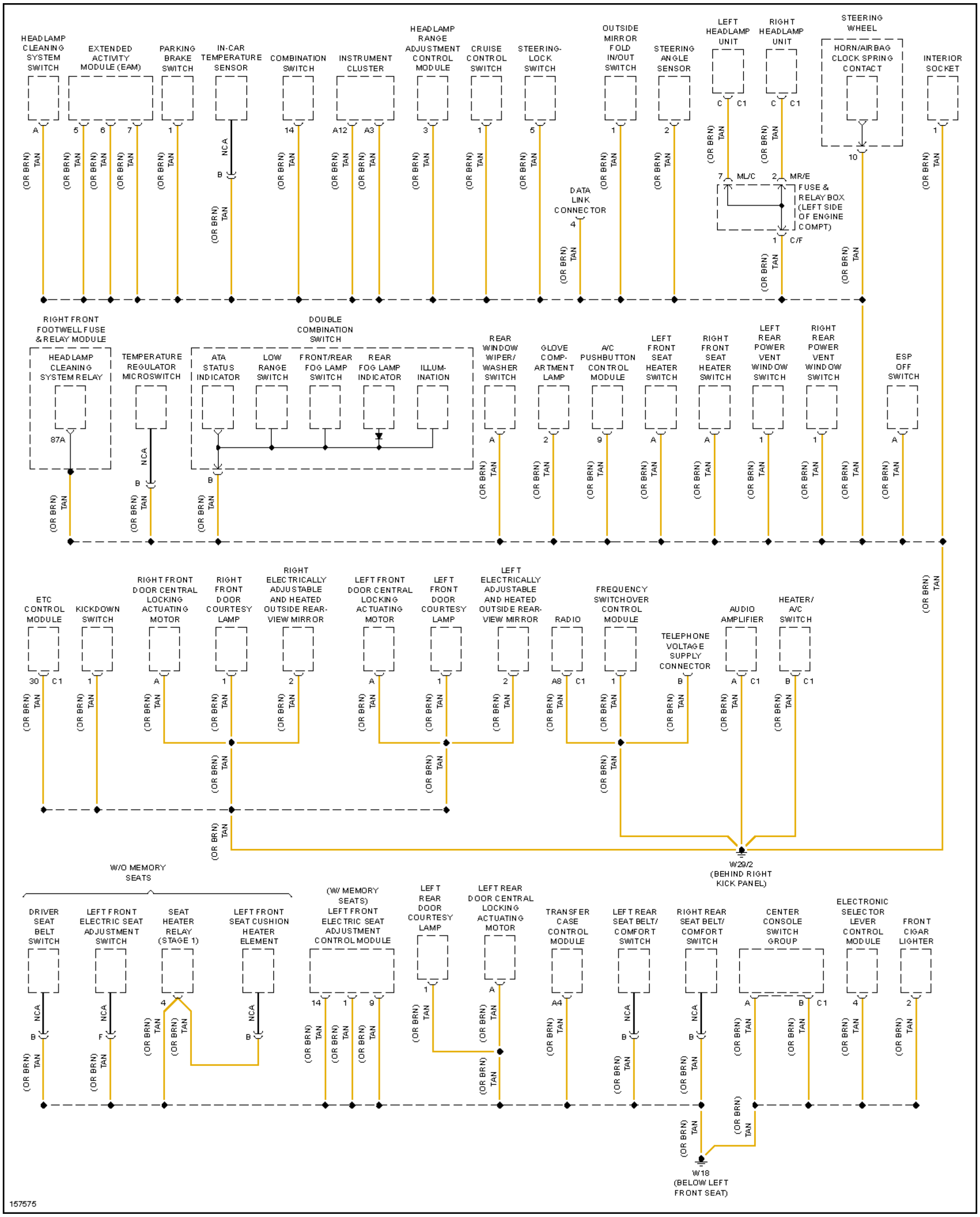

HEADLAMP CLEANING SYSTEM SWITCH
EXTENDED ACTIVITY MODULE (EAM)
PARKING BRAKE SWITCH
IN-CAR TEMPERATURE SENSOR
COMBINATION SWITCH
INSTRUMENT CLUSTER
HEADLAMP RANGE ADJUSTMENT CONTROL MODULE
CRUISE CONTROL SWITCH
STEERING-LOCK SWITCH
OUTSIDE MIRROR FOLD IN/OUT SWITCH
STEERING ANGLE SENSOR
LEFT HEADLAMP UNIT
RIGHT HEADLAMP UNIT
STEERING WHEEL
HORN/AIRBAG CLOCK SPRING CONTACT
INTERIOR SOCKET
DATA LINK CONNECTOR
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
RIGHT FRONT FOOTWELL FUSE & RELAY MODULE
HEADLAMP CLEANING SYSTEM RELAY
TEMPERATURE REGULATOR MICROSWITCH
DOUBLE COMBINATION SWITCH
ATA STATUS INDICATOR
LOW RANGE SWITCH
FRONT/REAR FOG LAMP SWITCH
REAR FOG LAMP INDICATOR
ILLUMINATION
REAR WINDOW WIPER/ WASHER SWITCH
GLOVE COMPARTMENT LAMP
A/C PUSHBUTTON CONTROL MODULE
LEFT FRONT SEAT HEATER SWITCH
RIGHT FRONT SEAT HEATER SWITCH
LEFT REAR POWER VENT WINDOW SWITCH
RIGHT REAR POWER VENT WINDOW SWITCH
ESP OFF SWITCH
ETC CONTROL MODULE
KICKDOWN SWITCH
RIGHT FRONT DOOR CENTRAL LOCKING ACTUATING MOTOR
RIGHT FRONT DOOR COURTESY LAMP
RIGHT ELECTRICALLY ADJUSTABLE AND HEATED OUTSIDE REAR-VIEW MIRROR
LEFT FRONT DOOR CENTRAL LOCKING ACTUATING MOTOR
LEFT FRONT DOOR COURTESY LAMP
LEFT ELECTRICALLY ADJUSTABLE AND HEATED OUTSIDE REAR-VIEW MIRROR
RADIO
FREQUENCY SWITCHOVER CONTROL MODULE
TELEPHONE VOLTAGE SUPPLY CONNECTOR
AUDIO AMPLIFIER
HEATER/ A/C SWITCH
W29/2 (BEHIND RIGHT KICK PANEL)
W/O MEMORY SEATS
DRIVER SEAT BELT SWITCH
LEFT FRONT ELECTRIC SEAT ADJUSTMENT SWITCH
SEAT HEATER RELAY (STAGE 1)
LEFT FRONT SEAT CUSHION HEATER ELEMENT
(W/ MEMORY SEATS) LEFT FRONT ELECTRIC SEAT ADJUSTMENT CONTROL MODULE
LEFT REAR DOOR COURTESY LAMP
LEFT REAR DOOR CENTRAL LOCKING ACTUATING MOTOR
TRANSFER CASE CONTROL MODULE
LEFT REAR SEAT BELT/ COMFORT SWITCH
RIGHT REAR SEAT BELT/ COMFORT SWITCH
CENTER CONSOLE SWITCH GROUP
ELECTRONIC SELECTOR LEVER CONTROL MODULE
FRONT CIGAR LIGHTER
W18 (BELOW LEFT FRONT SEAT)
TAN (OR BRN)
NCA
157575

Fig. 23: Ground Distribution Circuit (2 of 3)

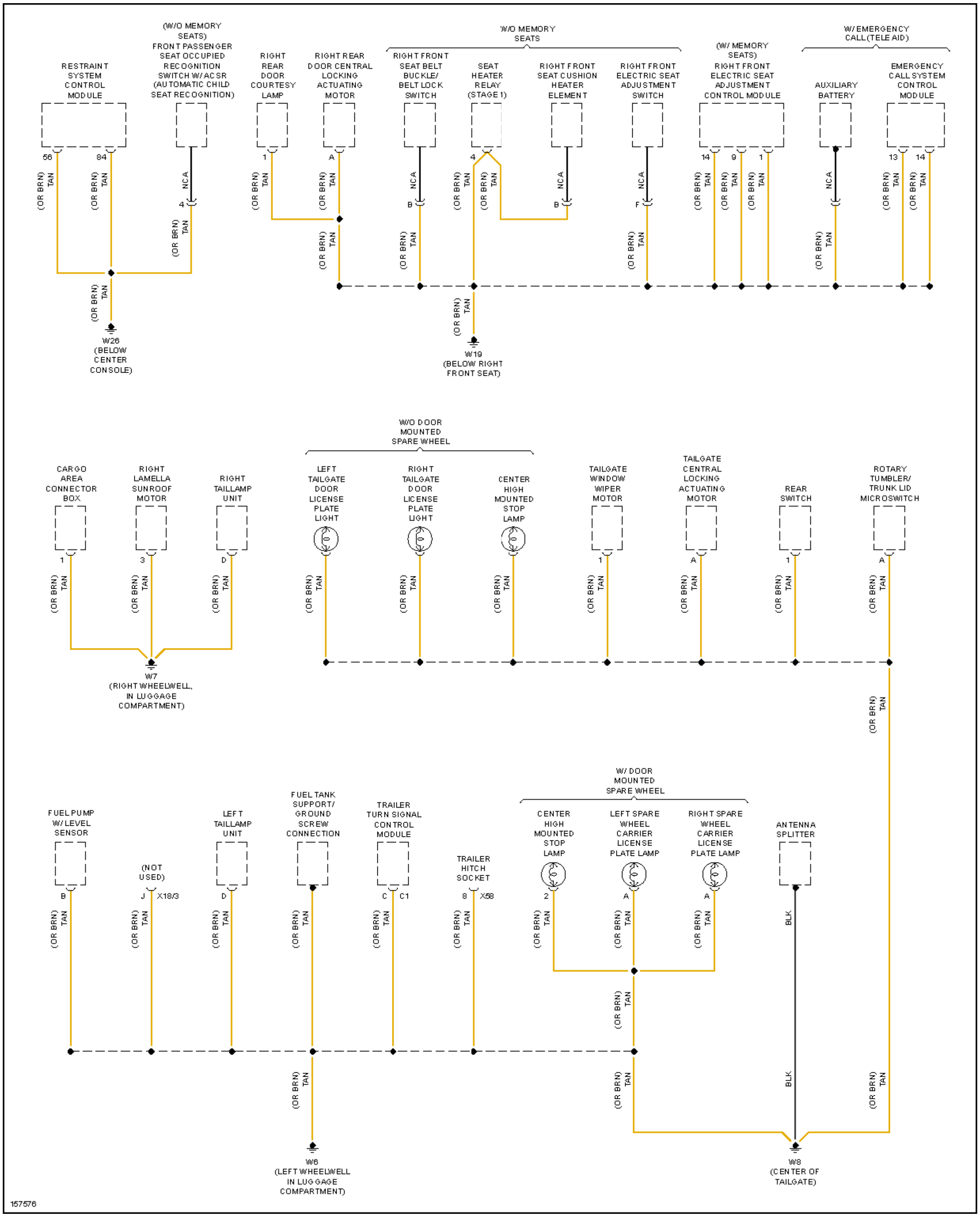

RESTRAINT SYSTEM CONTROL MODULE
(W/O MEMORY SEATS) FRONT PASSENGER SEAT OCCUPIED RECOGNITION SWITCH W/ ACSR (AUTOMATIC CHILD SEAT RECOGNITION)
RIGHT REAR DOOR COURTESY LAMP
RIGHT REAR DOOR CENTRAL LOCKING ACTUATING MOTOR
W/O MEMORY SEATS
RIGHT FRONT SEAT BELT BUCKLE/ BELT LOCK SWITCH
SEAT HEATER RELAY (STAGE 1)
RIGHT FRONT SEAT CUSHION HEATER ELEMENT
RIGHT FRONT ELECTRIC SEAT ADJUSTMENT SWITCH
(W/ MEMORY SEATS) RIGHT FRONT ELECTRIC SEAT ADJUSTMENT CONTROL MODULE
W/ EMERGENCY CALL (TELE AID)
AUXILIARY BATTERY
EMERGENCY CALL SYSTEM CONTROL MODULE
(OR BRN) TAN
NCA
W26 (BELOW CENTER CONSOLE)
W19 (BELOW RIGHT FRONT SEAT)
W/O DOOR MOUNTED SPARE WHEEL
CARGO AREA CONNECTOR BOX
RIGHT LAMELLA SUNROOF MOTOR
RIGHT TAILLAMP UNIT
LEFT TAILGATE DOOR LICENSE PLATE LIGHT
RIGHT TAILGATE DOOR LICENSE PLATE LIGHT
CENTER HIGH MOUNTED STOP LAMP
TAILGATE WINDOW WIPER MOTOR
TAILGATE CENTRAL LOCKING ACTUATING MOTOR
REAR SWITCH
ROTARY TUMBLER/ TRUNK LID MICROSWITCH
W7 (RIGHT WHEELWELL, IN LUGGAGE COMPARTMENT)
W/ DOOR MOUNTED SPARE WHEEL
FUEL PUMP W/ LEVEL SENSOR
(NOT USED)
X18/3
LEFT TAILLAMP UNIT
FUEL TANK SUPPORT/ GROUND SCREW CONNECTION
TRAILER TURN SIGNAL CONTROL MODULE
C1
TRAILER HITCH SOCKET
X58
CENTER HIGH MOUNTED STOP LAMP
LEFT SPARE WHEEL CARRIER LICENSE PLATE LAMP
RIGHT SPARE WHEEL CARRIER LICENSE PLATE LAMP
ANTENNA SPLITTER
BLK
W6 (LEFT WHEELWELL IN LUGGAGE COMPARTMENT)
W8 (CENTER OF TAILGATE)
157576

Fig. 24: Ground Distribution Circuit (3 of 3)

HEADLIGHTS

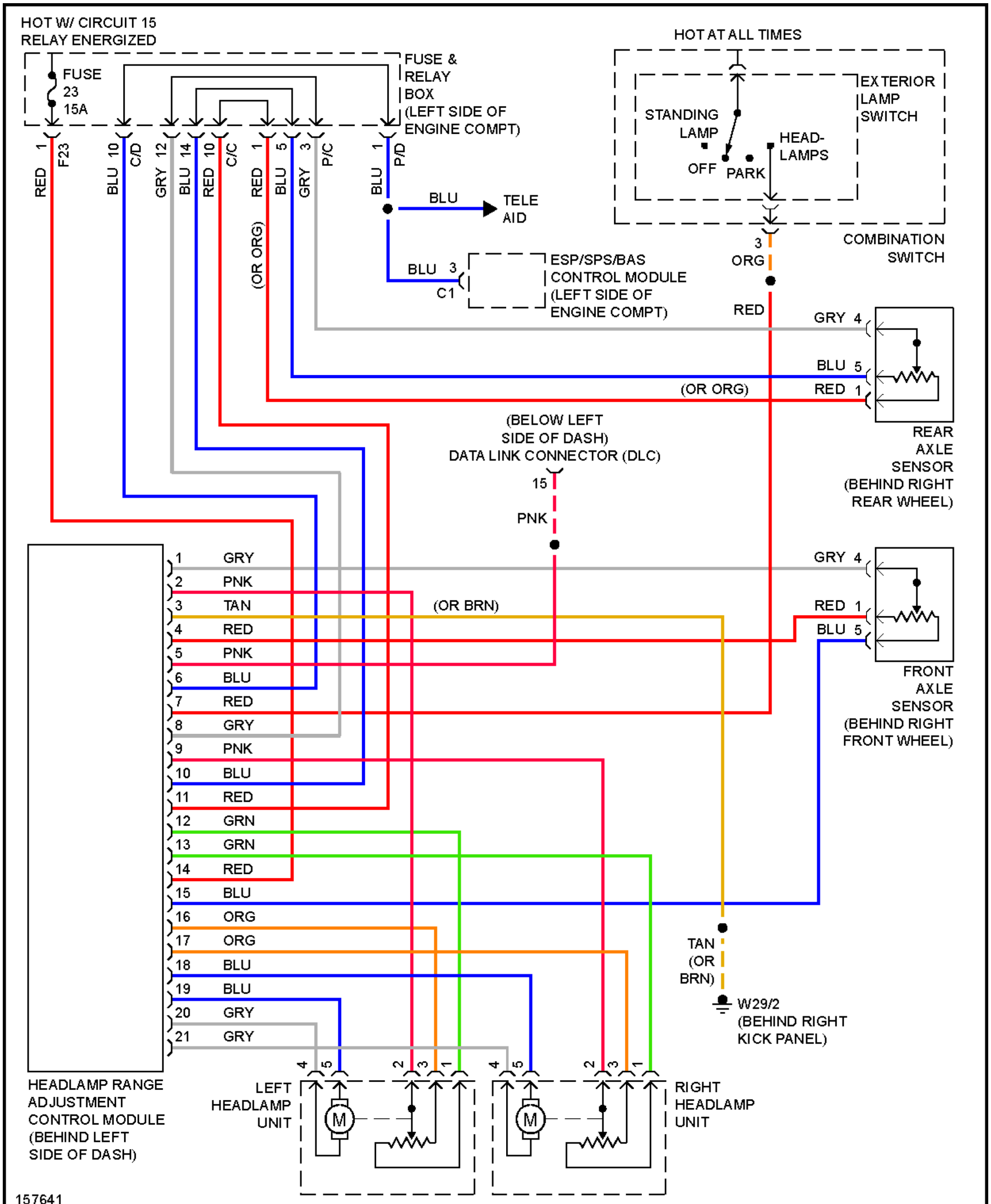
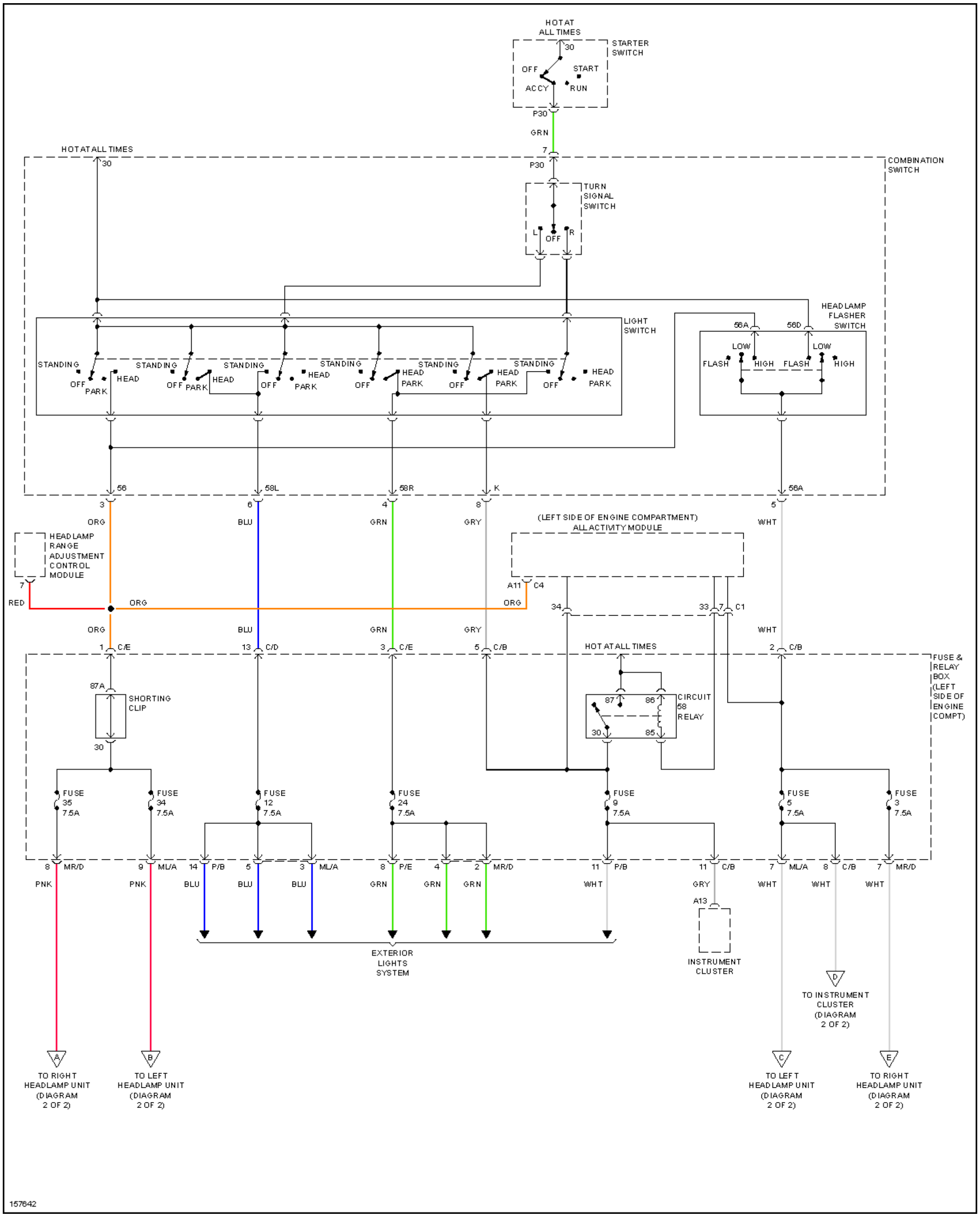

HOT W/ CIRCUIT 15 RELAY ENERGIZED
FUSE 23 15A
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
HOT AT ALL TIMES
STANDING LAMP
OFF
PARK
HEAD-LAMPS
EXTERIOR LAMP SWITCH
COMBINATION SWITCH
TELE AID
ESP/SPS/BAS CONTROL MODULE (LEFT SIDE OF ENGINE COMPT)
REAR AXLE SENSOR (BEHIND RIGHT REAR WHEEL)
(BELOW LEFT SIDE OF DASH) DATA LINK CONNECTOR (DLC)
FRONT AXLE SENSOR (BEHIND RIGHT FRONT WHEEL)
(OR BRN)
(OR ORG)
TAN (OR BRN)
W29/2 (BEHIND RIGHT KICK PANEL)
1 GRY
2 PNK
3 TAN
4 RED
5 PNK
6 BLU
7 RED
8 GRY
9 PNK
10 BLU
11 RED
12 GRN
13 GRN
14 RED
15 BLU
16 ORG
17 ORG
18 BLU
19 BLU
20 GRY
21 GRY
HEADLAMP RANGE ADJUSTMENT CONTROL MODULE (BEHIND LEFT SIDE OF DASH)
LEFT HEADLAMP UNIT
RIGHT HEADLAMP UNIT
M
157641

Fig. 25: Headlamps Leveling Circuit



HOT AT ALL TIMES
STARTER SWITCH
OFF
START
ACCY
RUN
P30
GRN
HOT AT ALL TIMES
COMBINATION SWITCH
TURN SIGNAL SWITCH
LIGHT SWITCH
STANDING
OFF
PARK
HEAD
HEADLAMP FLASHER SWITCH
56A
56D
LOW
FLASH
HIGH
56
58L
58R
K
ORG
BLU
GRN
GRY
WHT
HEADLAMP RANGE ADJUSTMENT CONTROL MODULE
RED
(LEFT SIDE OF ENGINE COMPARTMENT) ALL ACTIVITY MODULE
A11
C4
C1
C/E
C/D
C/B
HOT AT ALL TIMES
CIRCUIT 58 RELAY
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
87A
SHORTING CLIP
FUSE 35 7.5A
FUSE 34 7.5A
FUSE 12 7.5A
FUSE 24 7.5A
FUSE 9 7.5A
FUSE 5 7.5A
FUSE 3 7.5A
MR/D
ML/A
P/B
P/E
PNK
A13
EXTERIOR LIGHTS SYSTEM
INSTRUMENT CLUSTER
TO INSTRUMENT CLUSTER (DIAGRAM 2 OF 2)
TO RIGHT HEADLAMP UNIT (DIAGRAM 2 OF 2)
TO LEFT HEADLAMP UNIT (DIAGRAM 2 OF 2)
157642

Fig. 26: Headlights Circuit, W/ Xenon Lamps (1 of 2)

2001 Mercedes-Benz ML320

2001 SYSTEM WIRING DIAGRAMS Mercedes-Benz - ML320

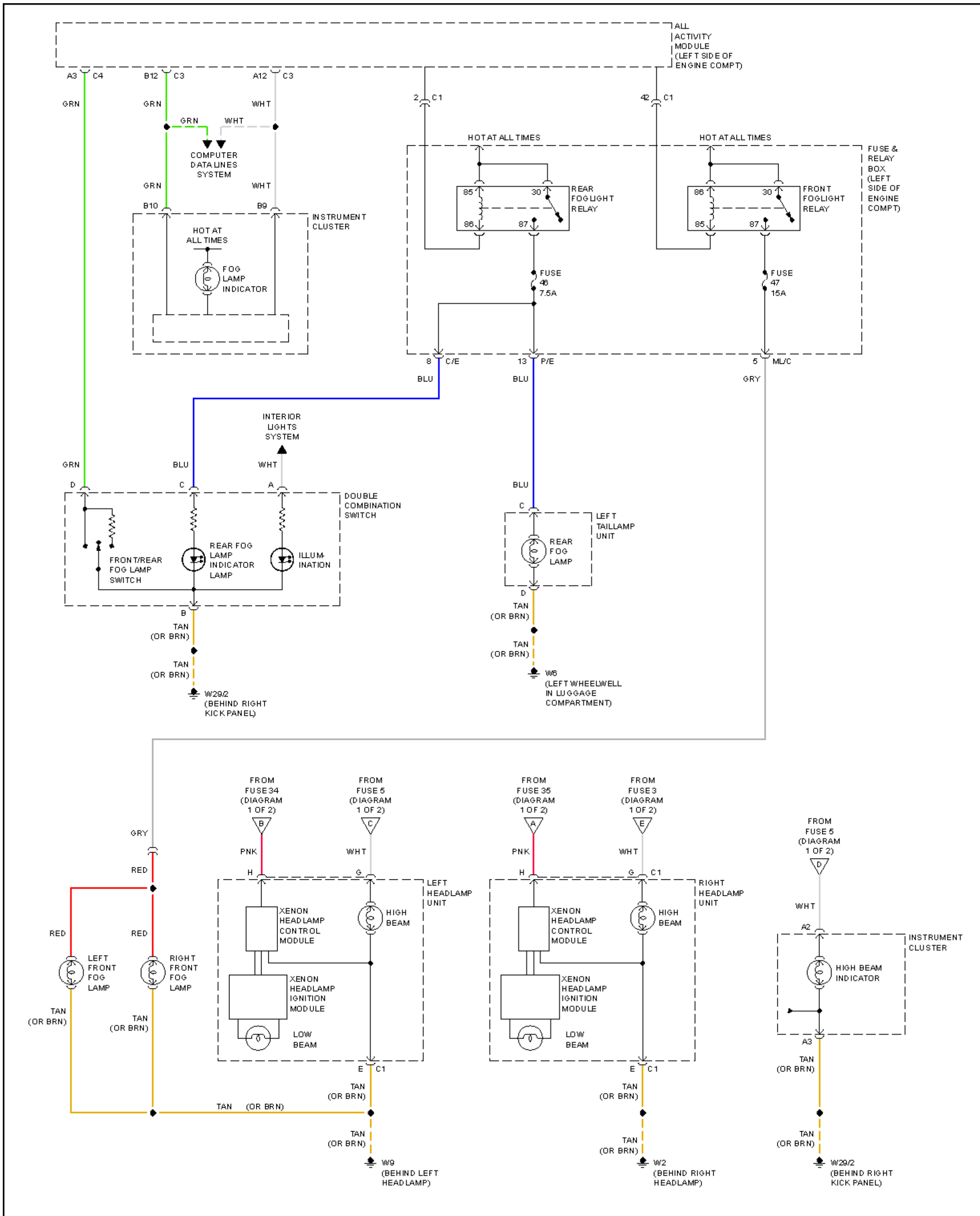


Fig. 27: Headlights Circuit, W/ Xenon Lamps (2 of 2)

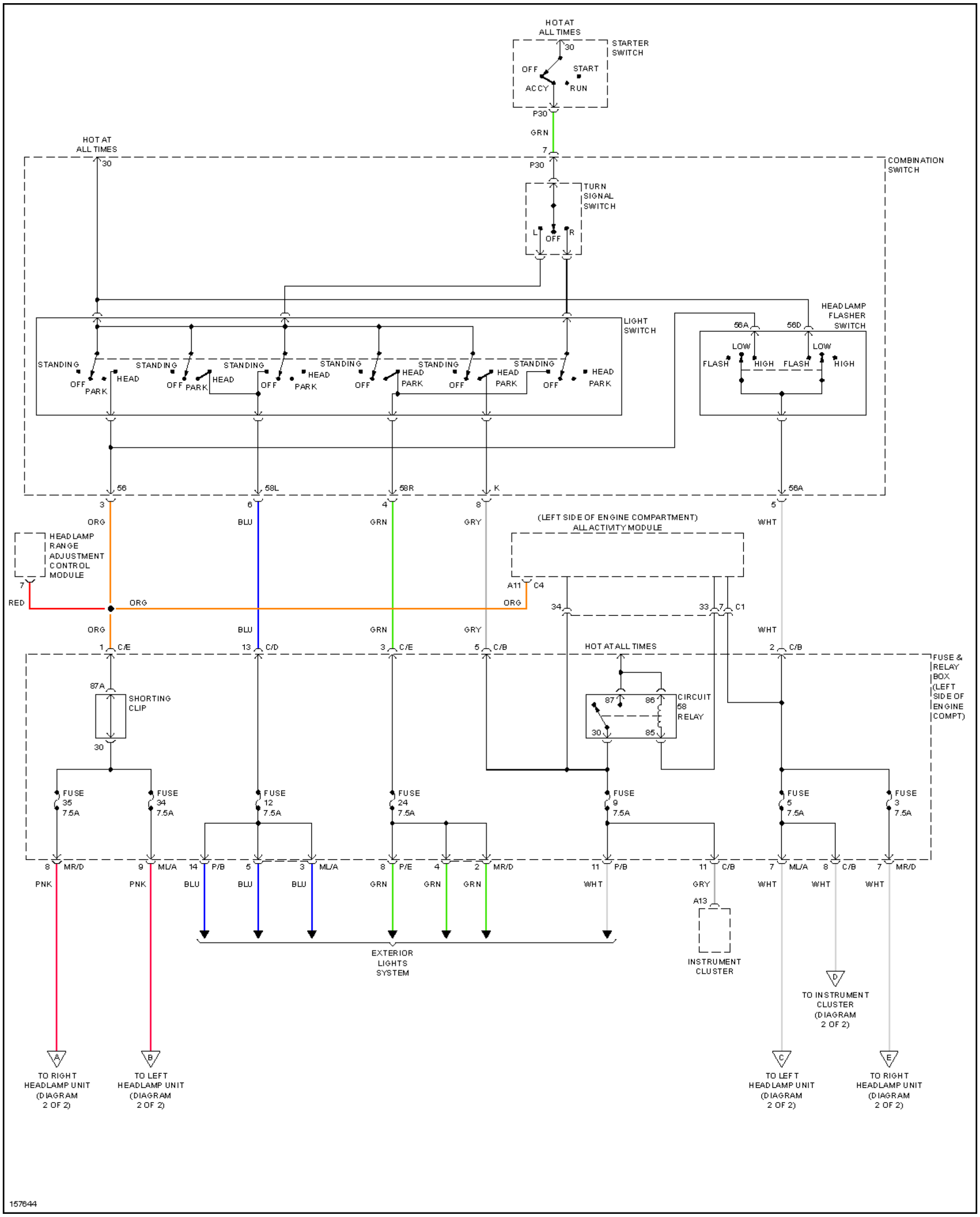
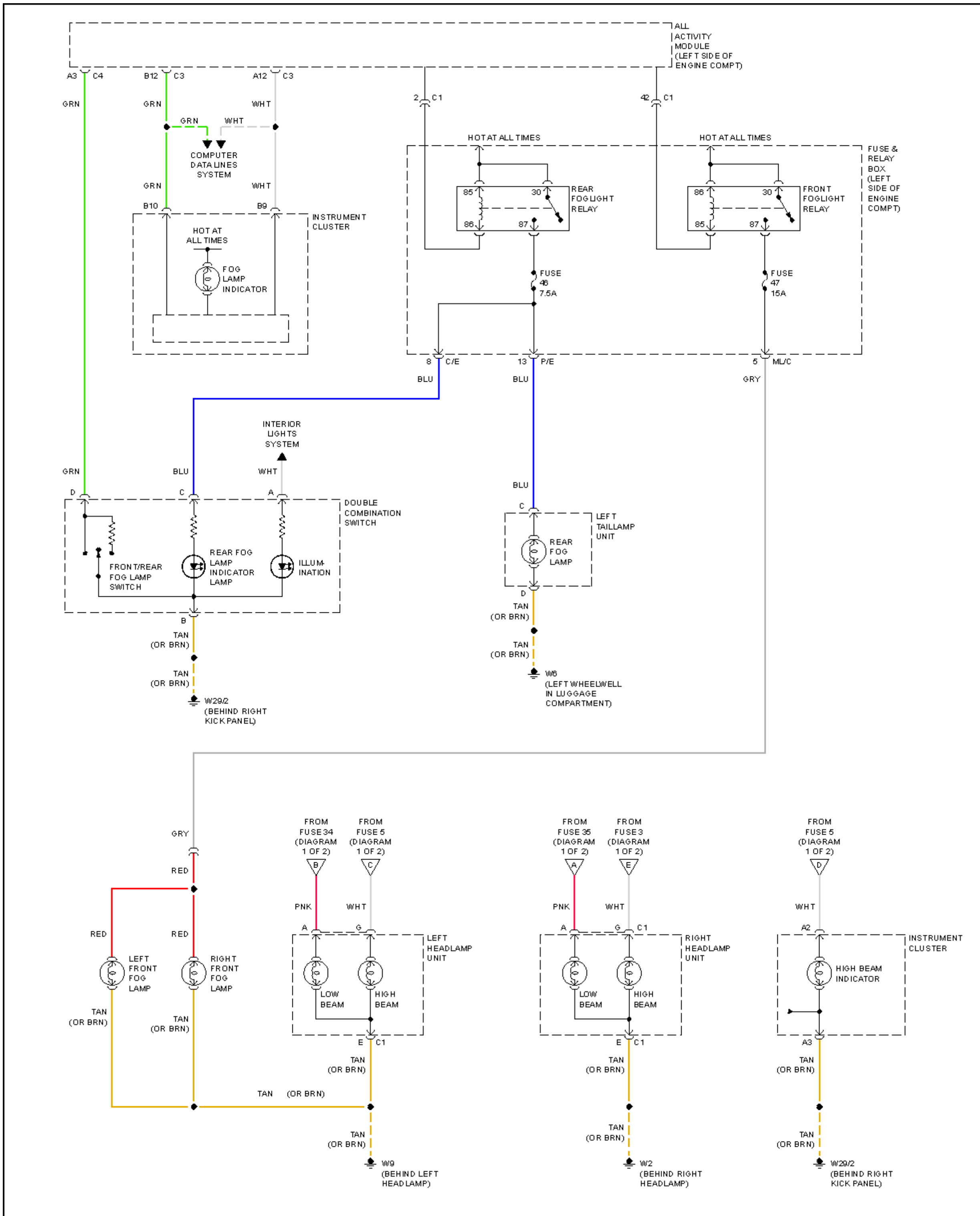

HOT AT ALL TIMES
STARTER SWITCH
OFF
START
ACCY
RUN
P30
GRN
COMBINATION SWITCH
TURN SIGNAL SWITCH
OFF
LIGHT SWITCH
STANDING
HEAD
PARK
HEADLAMP FLASHER SWITCH
LOW
HIGH
FLASH
56
58L
58R
K
56A
ORG
BLU
GRN
GRY
WHT
HEADLAMP RANGE ADJUSTMENT CONTROL MODULE
RED
(LEFT SIDE OF ENGINE COMPARTMENT) ALL ACTIVITY MODULE
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
SHORTING CLIP
CIRCUIT 58 RELAY
FUSE 35 7.5A
FUSE 34 7.5A
FUSE 12 7.5A
FUSE 24 7.5A
FUSE 9 7.5A
FUSE 5 7.5A
FUSE 3 7.5A
PNK
EXTERIOR LIGHTS SYSTEM
INSTRUMENT CLUSTER
TO INSTRUMENT CLUSTER (DIAGRAM 2 OF 2)
TO RIGHT HEADLAMP UNIT (DIAGRAM 2 OF 2)
TO LEFT HEADLAMP UNIT (DIAGRAM 2 OF 2)
157644

Fig. 28: Headlights Circuit, W/O Xenon Lamps (1 of 2)



ALL ACTIVITY MODULE (LEFT SIDE OF ENGINE COMPT)
A3 C4
B12 C3
A12 C3
GRN
WHT
COMPUTER DATA LINES SYSTEM
B10
B9
INSTRUMENT CLUSTER
HOT AT ALL TIMES
FOG LAMP INDICATOR
2 C1
42 C1
HOT AT ALL TIMES
85 30 86 87
REAR FOGLIGHT RELAY
FRONT FOGLIGHT RELAY
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
FUSE 46 7.5A
FUSE 47 15A
8 C/E
13 P/E
5 ML/C
BLU
GRY
INTERIOR LIGHTS SYSTEM
D C A
DOUBLE COMBINATION SWITCH
FRONT/REAR FOG LAMP SWITCH
REAR FOG LAMP INDICATOR LAMP
ILLUMINATION
B
TAN (OR BRN)
W29/2 (BEHIND RIGHT KICK PANEL)
LEFT TAILLAMP UNIT
REAR FOG LAMP
W6 (LEFT WHEELWELL IN LUGGAGE COMPARTMENT)
RED
LEFT FRONT FOG LAMP
RIGHT FRONT FOG LAMP
FROM FUSE 34 (DIAGRAM 1 OF 2)
FROM FUSE 5 (DIAGRAM 1 OF 2)
FROM FUSE 35 (DIAGRAM 1 OF 2)
FROM FUSE 3 (DIAGRAM 1 OF 2)
PNK
LEFT HEADLAMP UNIT
RIGHT HEADLAMP UNIT
LOW BEAM
HIGH BEAM
E C1
G C1
A2
A3
HIGH BEAM INDICATOR
W9 (BEHIND LEFT HEADLAMP)
W2 (BEHIND RIGHT HEADLAMP)
157646

Fig. 29: Headlights Circuit, W/O Xenon Lamps (2 of 2)

HORN

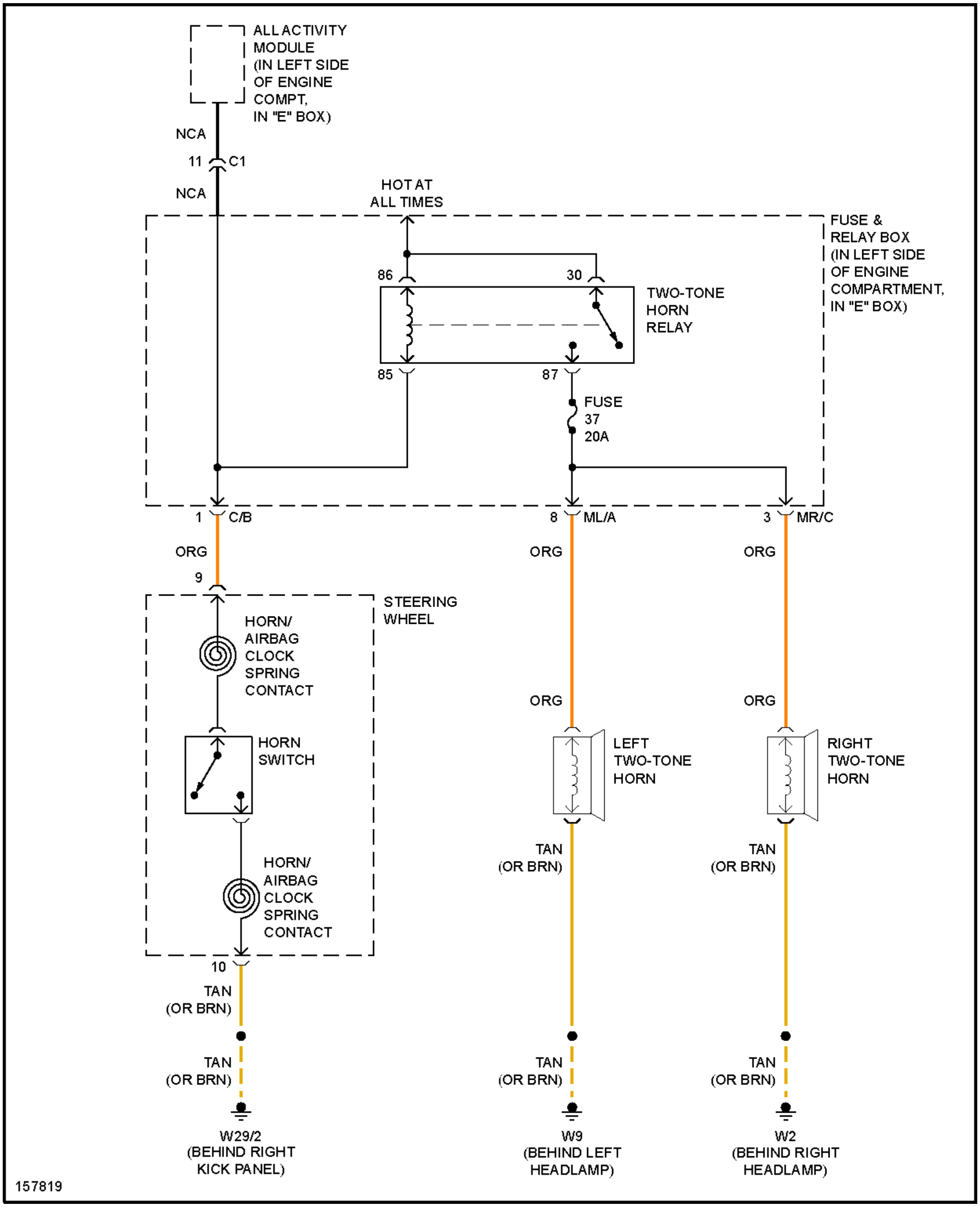
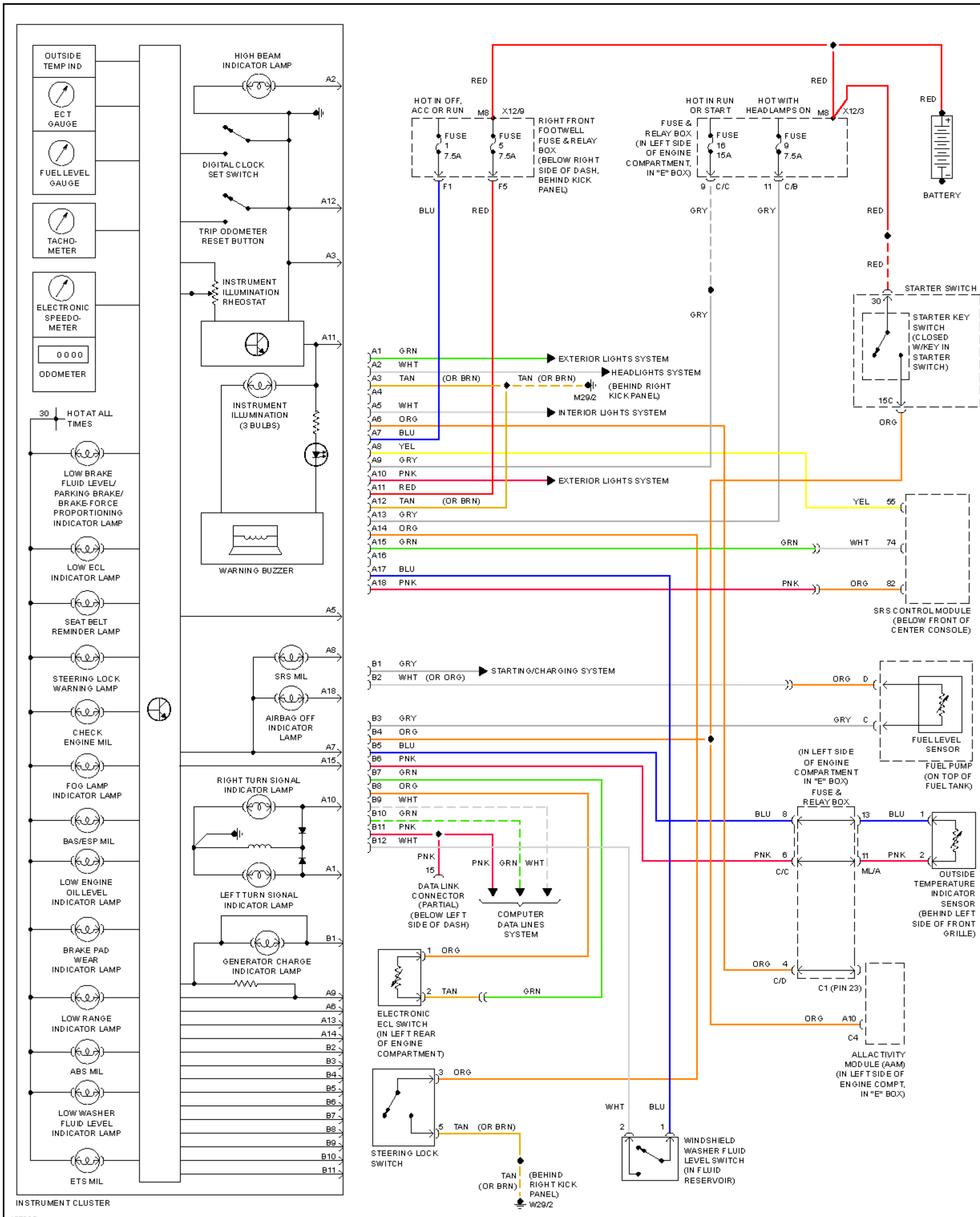

ALL ACTIVITY MODULE (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
NCA
11
C1
NCA
HOT AT ALL TIMES
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
86
30
TWO-TONE HORN RELAY
85
87
FUSE 37 20A
1
C/B
8
ML/A
3
MR/C
ORG
ORG
ORG
9
STEERING WHEEL
HORN/ AIRBAG CLOCK SPRING CONTACT
HORN SWITCH
HORN/ AIRBAG CLOCK SPRING CONTACT
10
ORG
ORG
LEFT TWO-TONE HORN
RIGHT TWO-TONE HORN
TAN (OR BRN)
TAN (OR BRN)
TAN (OR BRN)
TAN (OR BRN)
TAN (OR BRN)
TAN (OR BRN)
W29/2 (BEHIND RIGHT KICK PANEL)
W9 (BEHIND LEFT HEADLAMP)
W2 (BEHIND RIGHT HEADLAMP)
157819

Fig. 30: Horn Circuit

INSTRUMENT CLUSTER



OUTSIDE TEMP IND
ECT GAUGE
FUEL LEVEL GAUGE
TACHO-METER
ELECTRONIC SPEEDO-METER
0000
ODOMETER
HIGH BEAM INDICATOR LAMP
DIGITAL CLOCK SET SWITCH
TRIP ODOMETER RESET BUTTON
INSTRUMENT ILLUMINATION RHEOSTAT
INSTRUMENT ILLUMINATION (3 BULBS)
WARNING BUZZER
30
HOT AT ALL TIMES
LOW BRAKE FLUID LEVEL/ PARKING BRAKE/ BRAKE FORCE PROPORTIONING INDICATOR LAMP
LOW ECL INDICATOR LAMP
SEAT BELT REMINDER LAMP
STEERING LOCK WARNING LAMP
CHECK ENGINE MIL
FOG LAMP INDICATOR LAMP
BAS/ESP MIL
LOW ENGINE OIL LEVEL INDICATOR LAMP
BRAKE PAD WEAR INDICATOR LAMP
LOW RANGE INDICATOR LAMP
ABS MIL
LOW WASHER FLUID LEVEL INDICATOR LAMP
ETS MIL
SRS MIL
AIRBAG OFF INDICATOR LAMP
RIGHT TURN SIGNAL INDICATOR LAMP
LEFT TURN SIGNAL INDICATOR LAMP
GENERATOR CHARGE INDICATOR LAMP
INSTRUMENT CLUSTER
157665
HOT IN OFF, ACC OR RUN
M8
X12/9
FUSE 1 7.5A
FUSE 5 7.5A
F1
F5
RIGHT FRONT FOOTWELL FUSE & RELAY BOX (BELOW RIGHT SIDE OF DASH, BEHIND KICK PANEL)
HOT IN RUN OR START
HOT WITH HEADLAMPS ON
X12/3
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
FUSE 16 15A
FUSE 9 7.5A
9 C/C
11 C/B
BATTERY
STARTER SWITCH
STARTER KEY SWITCH (CLOSED W/KEY IN STARTER SWITCH)
15C
EXTERIOR LIGHTS SYSTEM
HEADLIGHTS SYSTEM
(BEHIND RIGHT KICK PANEL)
M29/2
INTERIOR LIGHTS SYSTEM
SRS CONTROL MODULE (BELOW FRONT OF CENTER CONSOLE)
STARTING/CHARGING SYSTEM
FUEL LEVEL SENSOR
FUEL PUMP (ON TOP OF FUEL TANK)
(IN LEFT SIDE OF ENGINE COMPARTMENT IN "E" BOX) FUSE & RELAY BOX
C/C
ML/A
OUTSIDE TEMPERATURE INDICATOR SENSOR (BEHIND LEFT SIDE OF FRONT GRILLE)
DATA LINK CONNECTOR (PARTIAL) (BELOW LEFT SIDE OF DASH)
COMPUTER DATA LINES SYSTEM
ELECTRONIC ECL SWITCH (IN LEFT REAR OF ENGINE COMPARTMENT)
C/D
C1 (PIN 23)
C4
ALL ACTIVITY MODULE (AAM) (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
STEERING LOCK SWITCH
TAN (OR BRN)
(BEHIND RIGHT KICK PANEL)
W29/2
WINDSHIELD WASHER FLUID LEVEL SWITCH (IN FLUID RESERVOIR)
A1 GRN
A2 WHT
A3 TAN (OR BRN)
A4
A5 WHT
A6 ORG
A7 BLU
A8 YEL
A9 GRY
A10 PNK
A11 RED
A12 TAN (OR BRN)
A13 GRY
A14 ORG
A15 GRN
A16
A17 BLU
A18 PNK
B1 GRY
B2 WHT (OR ORG)
B3 GRY
B4 ORG
B5 BLU
B6 PNK
B7 GRN
B8 ORG
B9 WHT
B10 GRN
B11 PNK
B12 WHT

Fig. 31: Instrument Cluster Circuit

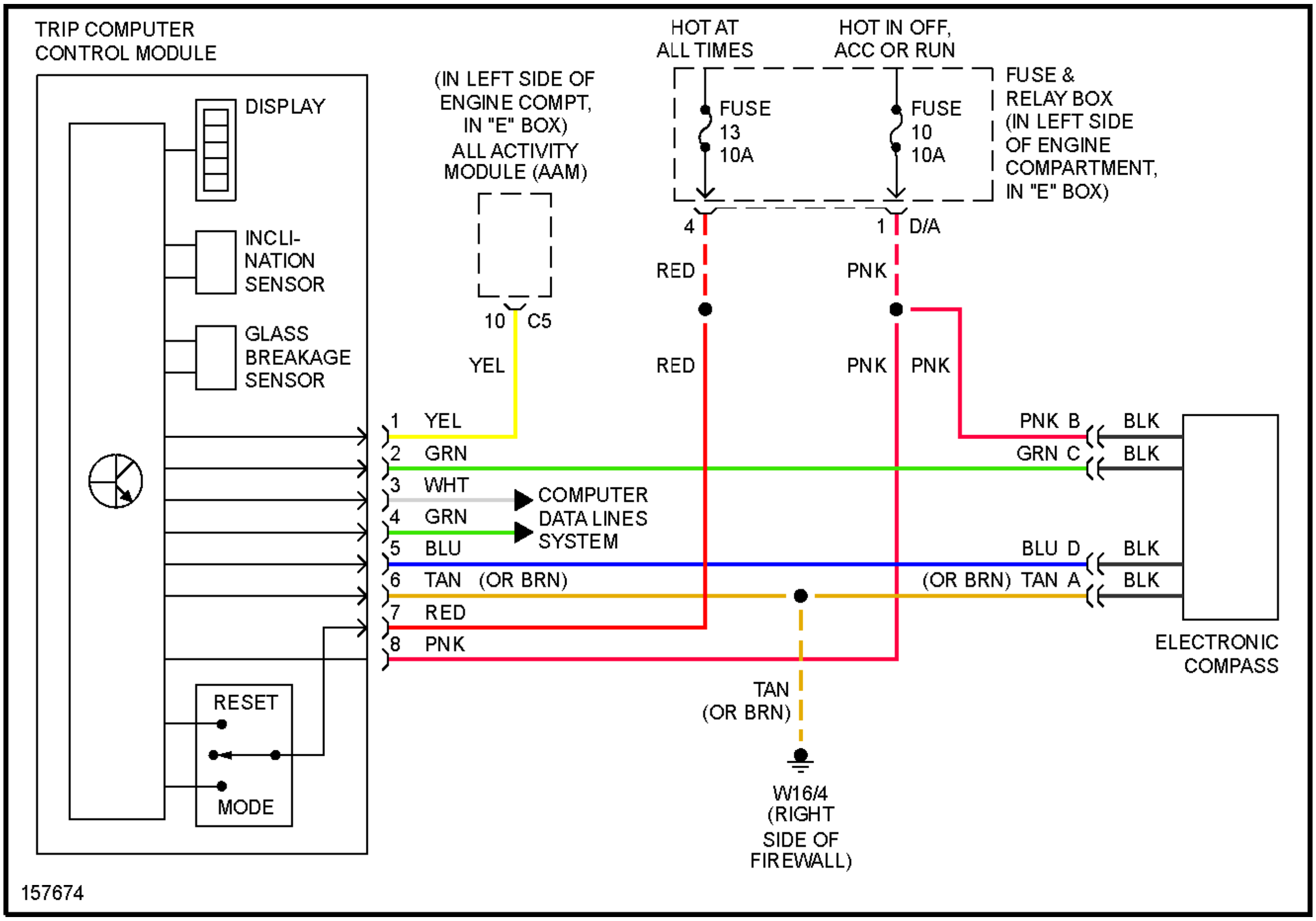

TRIP COMPUTER
CONTROL MODULE
DISPLAY
INCLI-
NATION
SENSOR
GLASS
BREAKAGE
SENSOR
RESET
MODE
(IN LEFT SIDE OF
ENGINE COMPT,
IN "E" BOX)
ALL ACTIVITY
MODULE (AAM)
10
C5
YEL
HOT AT
ALL TIMES
HOT IN OFF,
ACC OR RUN
FUSE
13
10A
FUSE
10
10A
FUSE &
RELAY BOX
(IN LEFT SIDE
OF ENGINE
COMPARTMENT,
IN "E" BOX)
4
1
D/A
RED
PNK
RED
PNK
PNK
1 YEL
2 GRN
3 WHT
4 GRN
5 BLU
6 TAN (OR BRN)
7 RED
8 PNK
COMPUTER
DATA LINES
SYSTEM
PNK B
GRN C
BLU D
(OR BRN) TAN A
BLK
BLK
BLK
BLK
ELECTRONIC
COMPASS
TAN
(OR BRN)
W16/4
(RIGHT
SIDE OF
FIREWALL)
157674

Fig. 32: Trip Computer Circuit

INTERIOR LIGHTS

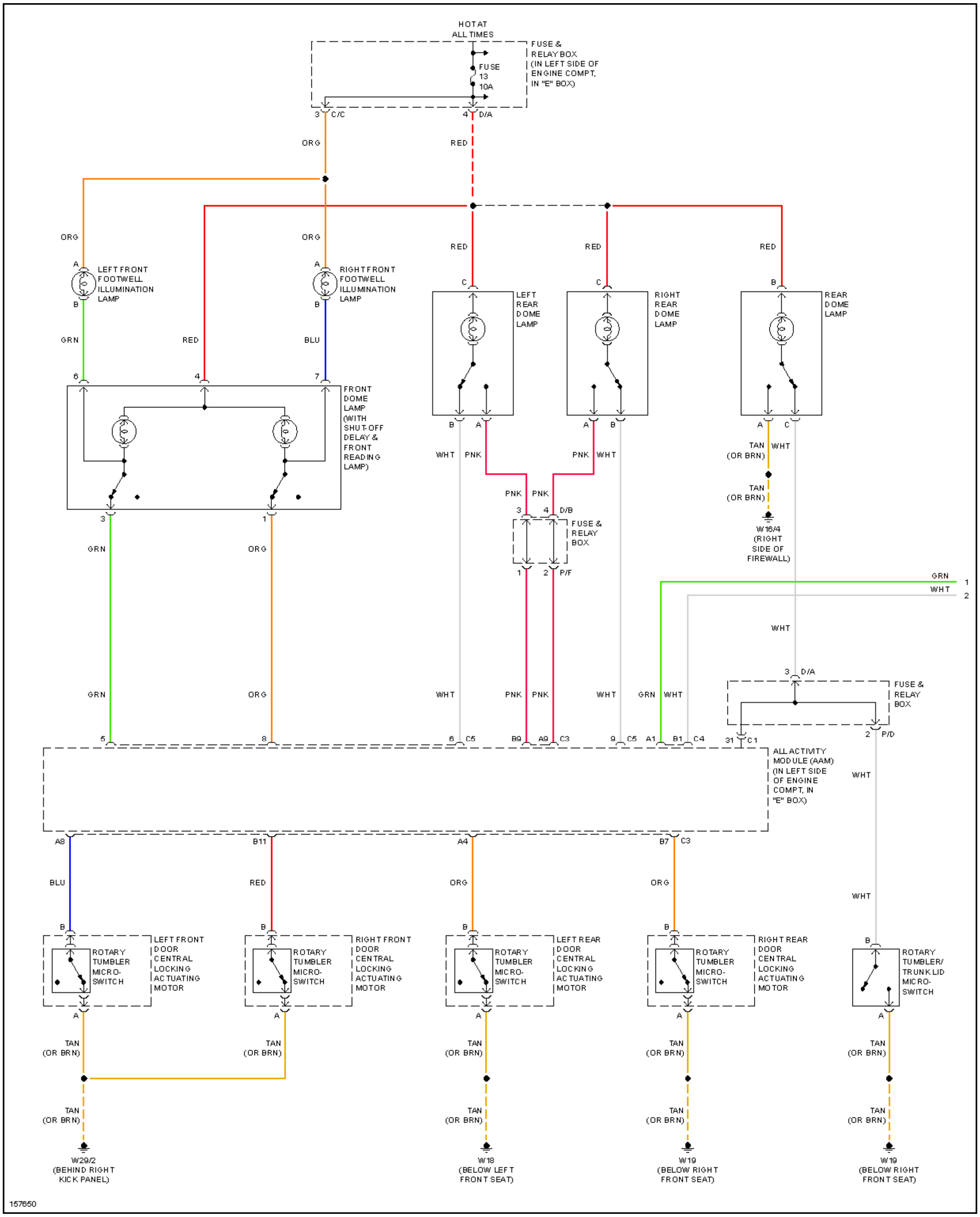

HOT AT ALL TIMES
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
FUSE 13 10A
LEFT FRONT FOOTWELL ILLUMINATION LAMP
RIGHT FRONT FOOTWELL ILLUMINATION LAMP
LEFT REAR DOME LAMP
RIGHT REAR DOME LAMP
REAR DOME LAMP
FRONT DOME LAMP (WITH SHUT-OFF DELAY & FRONT READING LAMP)
FUSE & RELAY BOX
W16/4 (RIGHT SIDE OF FIREWALL)
ALL ACTIVITY MODULE (AAM) (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
ROTARY TUMBLER MICRO-SWITCH
LEFT FRONT DOOR CENTRAL LOCKING ACTUATING MOTOR
RIGHT FRONT DOOR CENTRAL LOCKING ACTUATING MOTOR
LEFT REAR DOOR CENTRAL LOCKING ACTUATING MOTOR
RIGHT REAR DOOR CENTRAL LOCKING ACTUATING MOTOR
ROTARY TUMBLER/ TRUNK LID MICRO-SWITCH
W29/2 (BEHIND RIGHT KICK PANEL)
W18 (BELOW LEFT FRONT SEAT)
W19 (BELOW RIGHT FRONT SEAT)
W19 (BELOW RIGHT FRONT SEAT)
157650

Fig. 33: Courtesy Lamps Circuit (1 of 2)

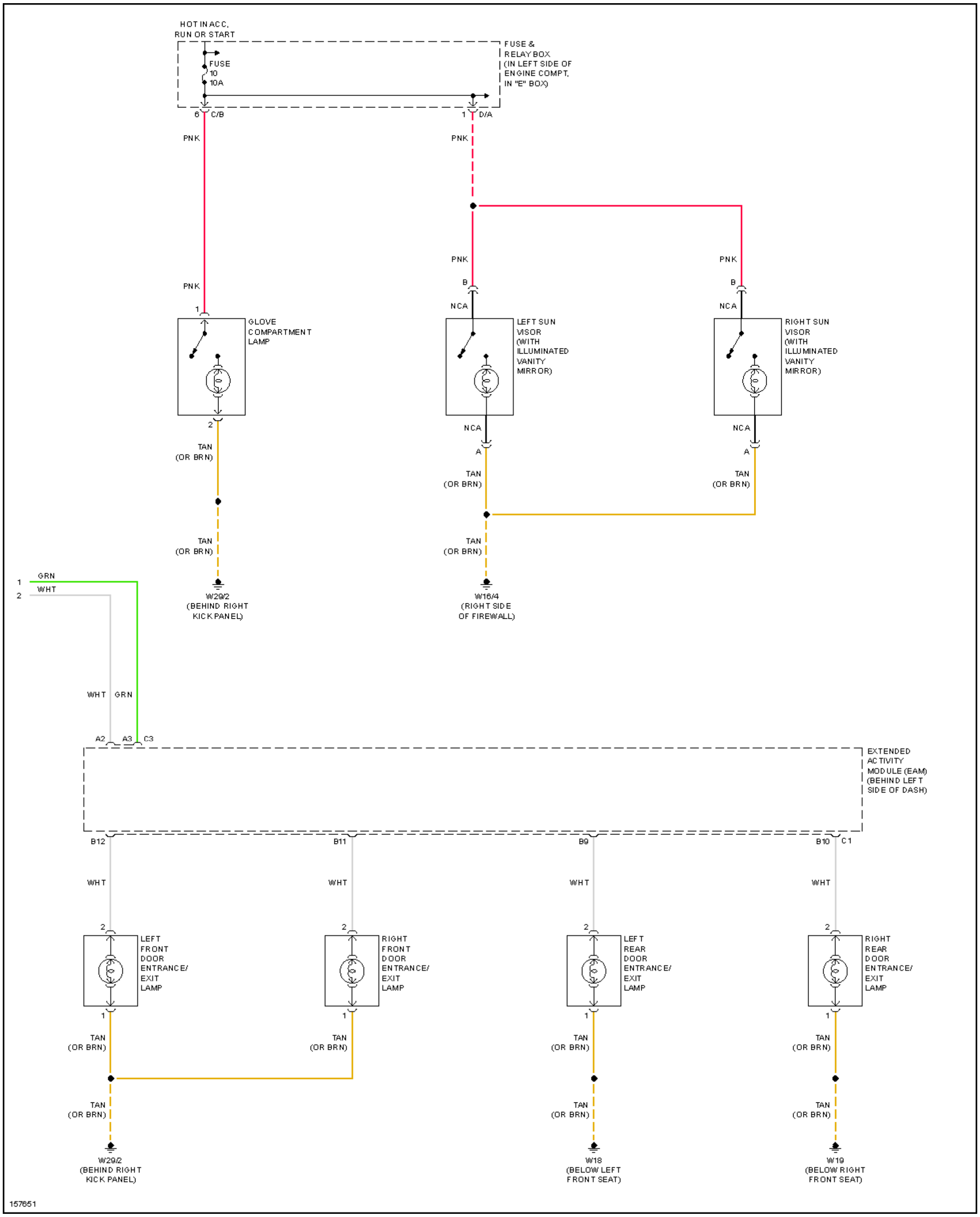
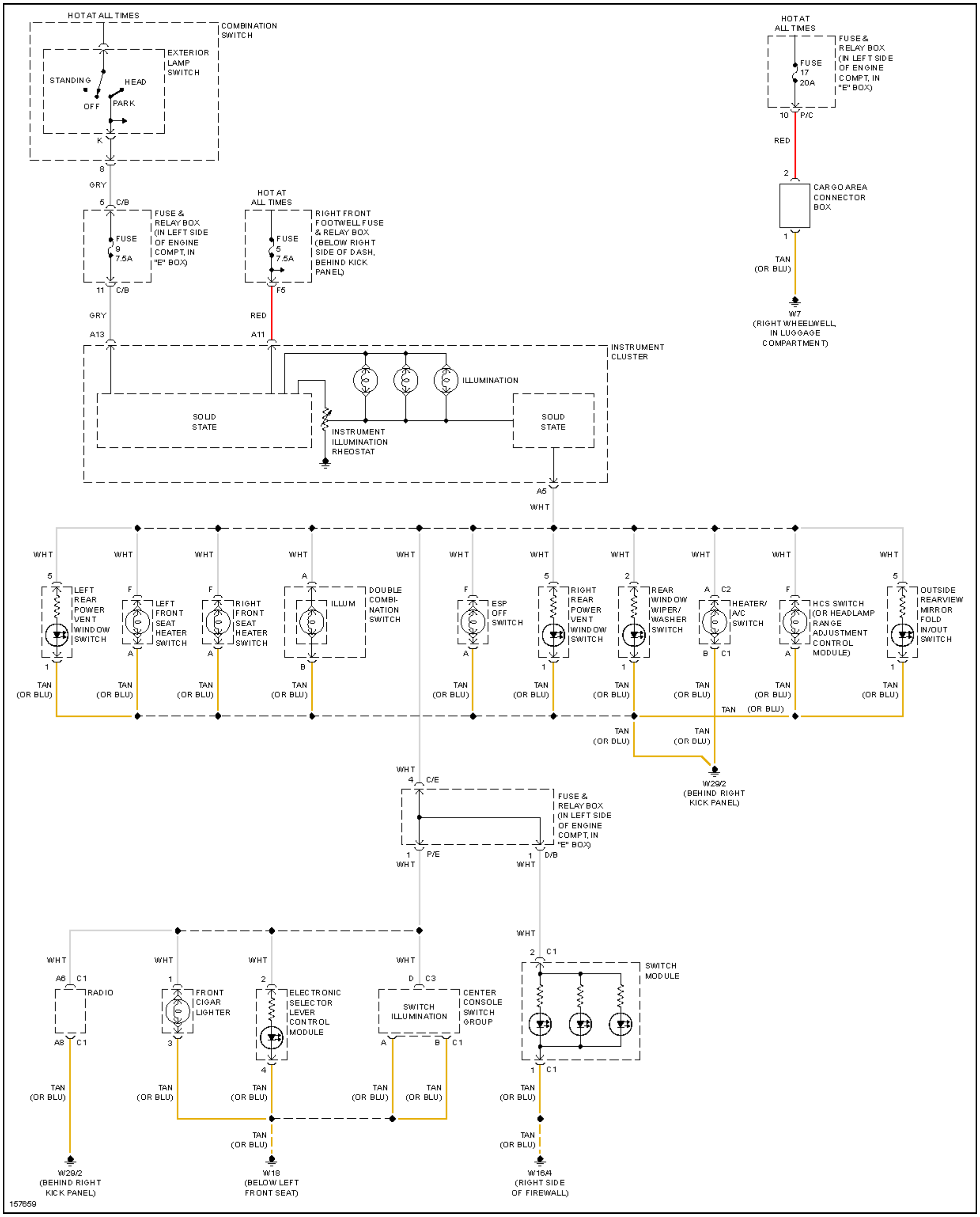

HOT IN ACC, RUN OR START
FUSE 10 10A
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
6 C/B
1 D/A
PNK
GLOVE COMPARTMENT LAMP
LEFT SUN VISOR (WITH ILLUMINATED VANITY MIRROR)
RIGHT SUN VISOR (WITH ILLUMINATED VANITY MIRROR)
NCA
TAN (OR BRN)
W29/2 (BEHIND RIGHT KICK PANEL)
W16/4 (RIGHT SIDE OF FIREWALL)
GRN
WHT
A2 A3 C3
EXTENDED ACTIVITY MODULE (EAM) (BEHIND LEFT SIDE OF DASH)
B12
B11
B9
B10 C1
LEFT FRONT DOOR ENTRANCE/ EXIT LAMP
RIGHT FRONT DOOR ENTRANCE/ EXIT LAMP
LEFT REAR DOOR ENTRANCE/ EXIT LAMP
RIGHT REAR DOOR ENTRANCE/ EXIT LAMP
W29/2 (BEHIND RIGHT KICK PANEL)
W18 (BELOW LEFT FRONT SEAT)
W19 (BELOW RIGHT FRONT SEAT)
157651

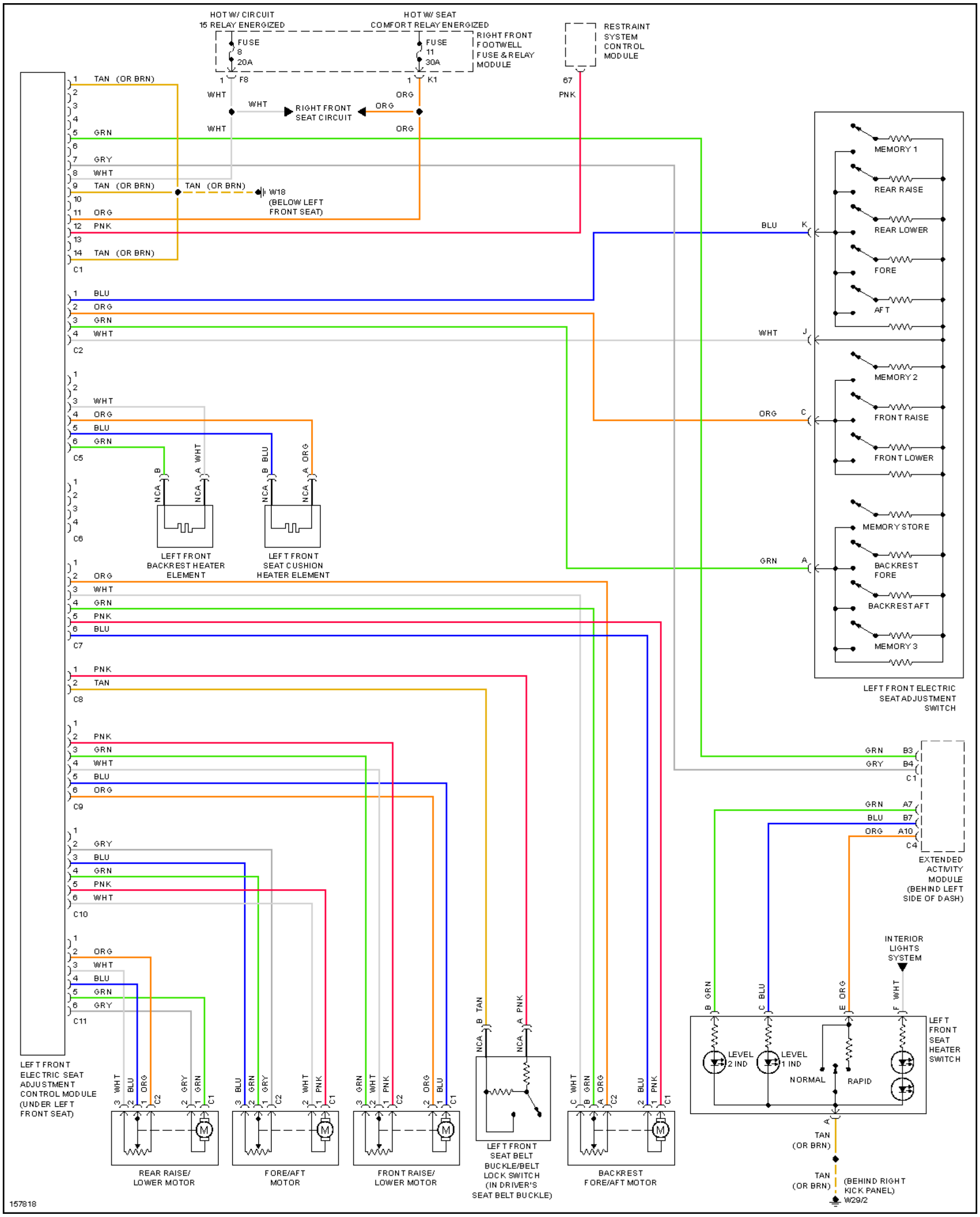
Fig. 34: Courtesy Lamps Circuit (2 of 2)



HOT AT ALL TIMES
COMBINATION SWITCH
EXTERIOR LAMP SWITCH
STANDING
HEAD
OFF
PARK
K
8
GRY
5 C/B
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
FUSE 9 7.5A
11 C/B
GRY
A13
HOT AT ALL TIMES
RIGHT FRONT FOOTWELL FUSE & RELAY BOX (BELOW RIGHT SIDE OF DASH, BEHIND KICK PANEL)
FUSE 5 7.5A
F5
RED
A11
INSTRUMENT CLUSTER
ILLUMINATION
SOLID STATE
INSTRUMENT ILLUMINATION RHEOSTAT
SOLID STATE
A5
WHT
HOT AT ALL TIMES
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
FUSE 17 20A
10 P/C
RED
2
CARGO AREA CONNECTOR BOX
1
TAN (OR BLU)
W7 (RIGHT WHEELWELL, IN LUGGAGE COMPARTMENT)
LEFT REAR POWER VENT WINDOW SWITCH
LEFT FRONT SEAT HEATER SWITCH
RIGHT FRONT SEAT HEATER SWITCH
ILLUM
DOUBLE COMBINATION SWITCH
ESP OFF SWITCH
RIGHT REAR POWER VENT WINDOW SWITCH
REAR WINDOW WIPER/ WASHER SWITCH
C2
HEATER/ A/C SWITCH
C1
HCS SWITCH (OR HEADLAMP RANGE ADJUSTMENT CONTROL MODULE)
OUTSIDE REARVIEW MIRROR FOLD IN/OUT SWITCH
W29/2 (BEHIND RIGHT KICK PANEL)
4 C/E
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
1 P/E
1 D/B
A6 C1
RADIO
A8 C1
FRONT CIGAR LIGHTER
ELECTRONIC SELECTOR LEVER CONTROL MODULE
D C3
SWITCH ILLUMINATION
CENTER CONSOLE SWITCH GROUP
B C1
2 C1
SWITCH MODULE
1 C1
W29/2 (BEHIND RIGHT KICK PANEL)
W18 (BELOW LEFT FRONT SEAT)
W16/4 (RIGHT SIDE OF FIREWALL)
157659

Fig. 35: Instrument Illumination Circuit

MEMORY SYSTEMS



HOT W/ CIRCUIT 15 RELAY ENERGIZED
HOT W/ SEAT COMFORT RELAY ENERGIZED
FUSE 8 20A
FUSE 11 30A
RIGHT FRONT FOOTWELL FUSE & RELAY MODULE
RESTRAINT SYSTEM CONTROL MODULE
RIGHT FRONT SEAT CIRCUIT
W18 (BELOW LEFT FRONT SEAT)
LEFT FRONT BACKREST HEATER ELEMENT
LEFT FRONT SEAT CUSHION HEATER ELEMENT
MEMORY 1
REAR RAISE
REAR LOWER
FORE
AFT
MEMORY 2
FRONT RAISE
FRONT LOWER
MEMORY STORE
BACKREST FORE
BACKREST AFT
MEMORY 3
LEFT FRONT ELECTRIC SEAT ADJUSTMENT SWITCH
EXTENDED ACTIVITY MODULE (BEHIND LEFT SIDE OF DASH)
INTERIOR LIGHTS SYSTEM
LEVEL 2 IND
LEVEL 1 IND
NORMAL
RAPID
LEFT FRONT SEAT HEATER SWITCH
(BEHIND RIGHT KICK PANEL) W29/2
LEFT FRONT ELECTRIC SEAT ADJUSTMENT CONTROL MODULE (UNDER LEFT FRONT SEAT)
REAR RAISE/ LOWER MOTOR
FORE/AFT MOTOR
FRONT RAISE/ LOWER MOTOR
LEFT FRONT SEAT BELT BUCKLE/BELT LOCK SWITCH (IN DRIVER'S SEAT BELT BUCKLE)
BACKREST FORE/AFT MOTOR
157818

Fig. 36: Driver"s Memory Seat Circuit

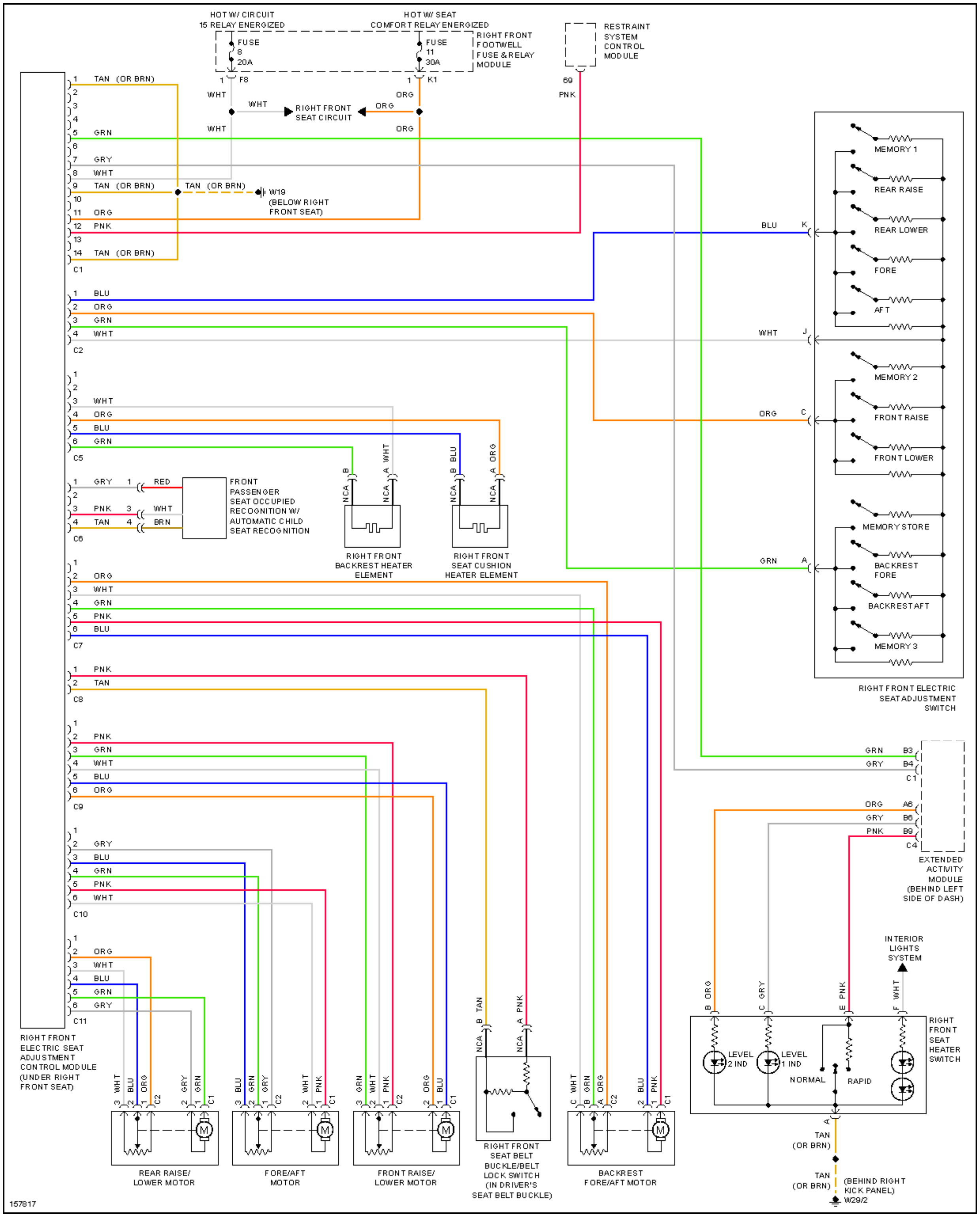

HOT W/ CIRCUIT 15 RELAY ENERGIZED
HOT W/ SEAT COMFORT RELAY ENERGIZED
FUSE 8 20A
FUSE 11 30A
RIGHT FRONT FOOTWELL FUSE & RELAY MODULE
RESTRAINT SYSTEM CONTROL MODULE
RIGHT FRONT SEAT CIRCUIT
W19 (BELOW RIGHT FRONT SEAT)
FRONT PASSENGER SEAT OCCUPIED RECOGNITION W/ AUTOMATIC CHILD SEAT RECOGNITION
RIGHT FRONT BACKREST HEATER ELEMENT
RIGHT FRONT SEAT CUSHION HEATER ELEMENT
MEMORY 1
REAR RAISE
REAR LOWER
FORE
AFT
MEMORY 2
FRONT RAISE
FRONT LOWER
MEMORY STORE
BACKREST FORE
BACKREST AFT
MEMORY 3
RIGHT FRONT ELECTRIC SEAT ADJUSTMENT SWITCH
EXTENDED ACTIVITY MODULE (BEHIND LEFT SIDE OF DASH)
INTERIOR LIGHTS SYSTEM
LEVEL 2 IND
LEVEL 1 IND
NORMAL
RAPID
RIGHT FRONT SEAT HEATER SWITCH
RIGHT FRONT ELECTRIC SEAT ADJUSTMENT CONTROL MODULE (UNDER RIGHT FRONT SEAT)
REAR RAISE/ LOWER MOTOR
FORE/AFT MOTOR
FRONT RAISE/ LOWER MOTOR
RIGHT FRONT SEAT BELT BUCKLE/BELT LOCK SWITCH (IN DRIVER'S SEAT BELT BUCKLE)
BACKREST FORE/AFT MOTOR
TAN (OR BRN)
(BEHIND RIGHT KICK PANEL) W29/2
157817

Fig. 37: Passenger"s Memory Seat Circuit

POWER DISTRIBUTION

2001 Mercedes-Benz ML320

2001 SYSTEM WIRING DIAGRAMS Mercedes-Benz - ML320

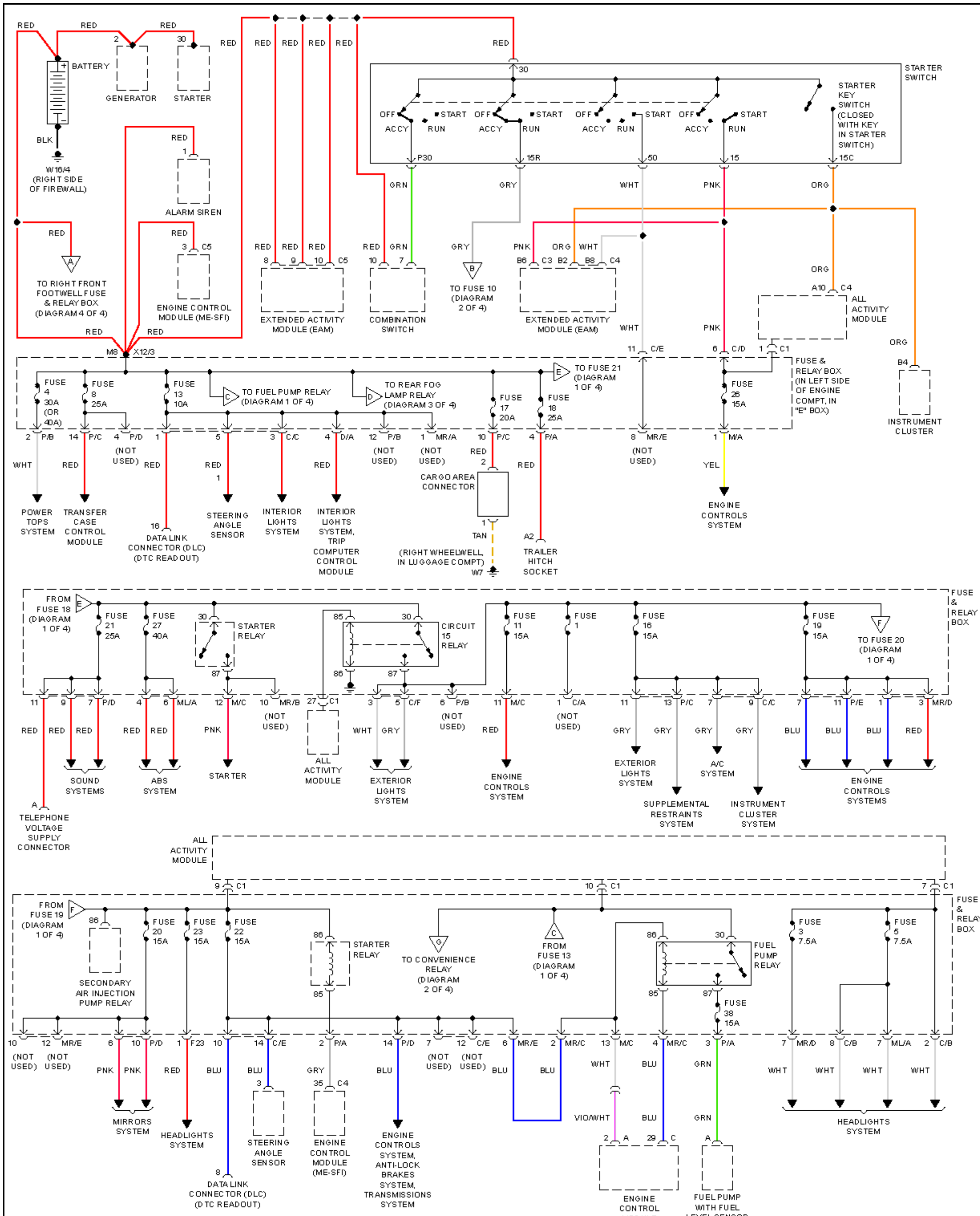
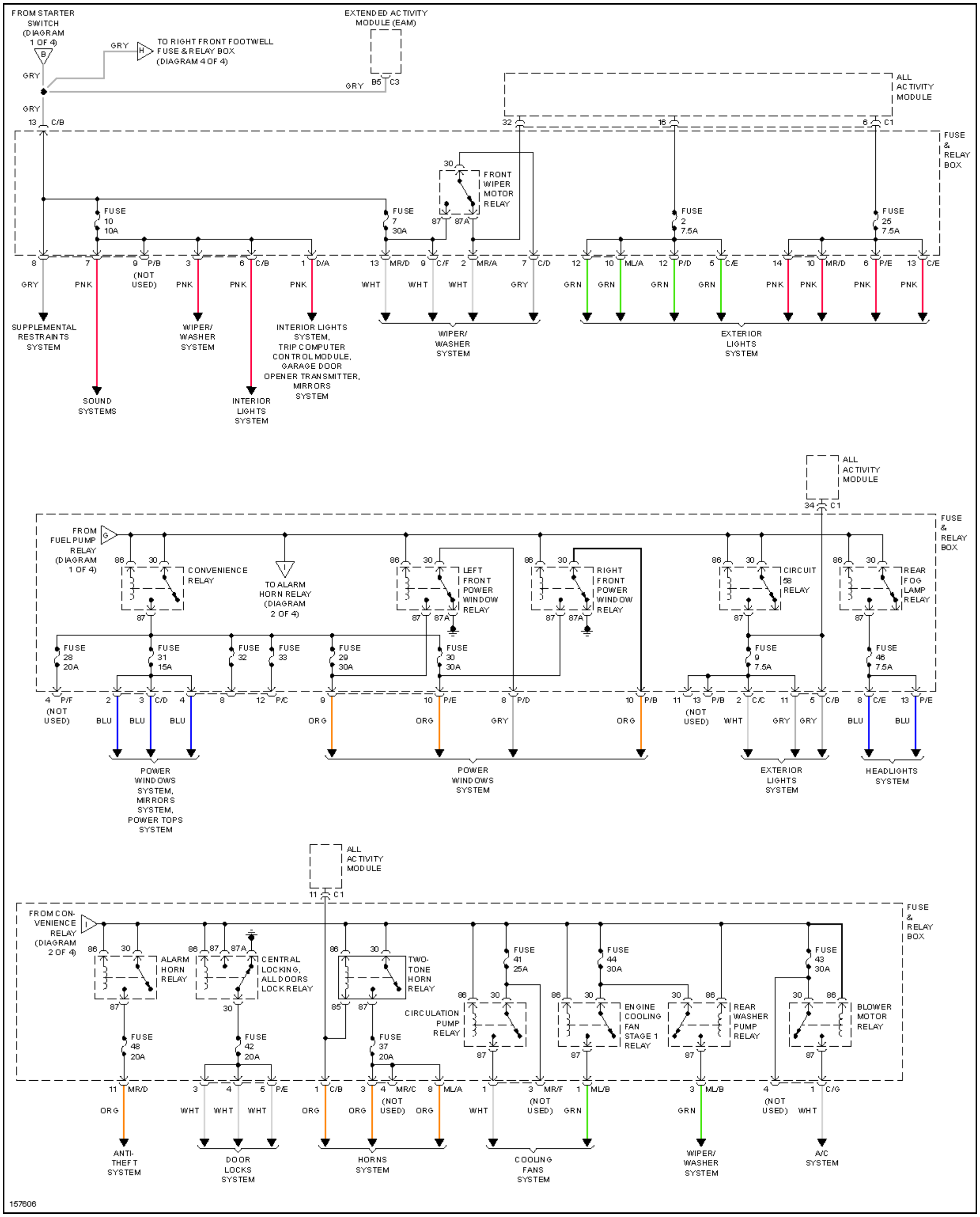
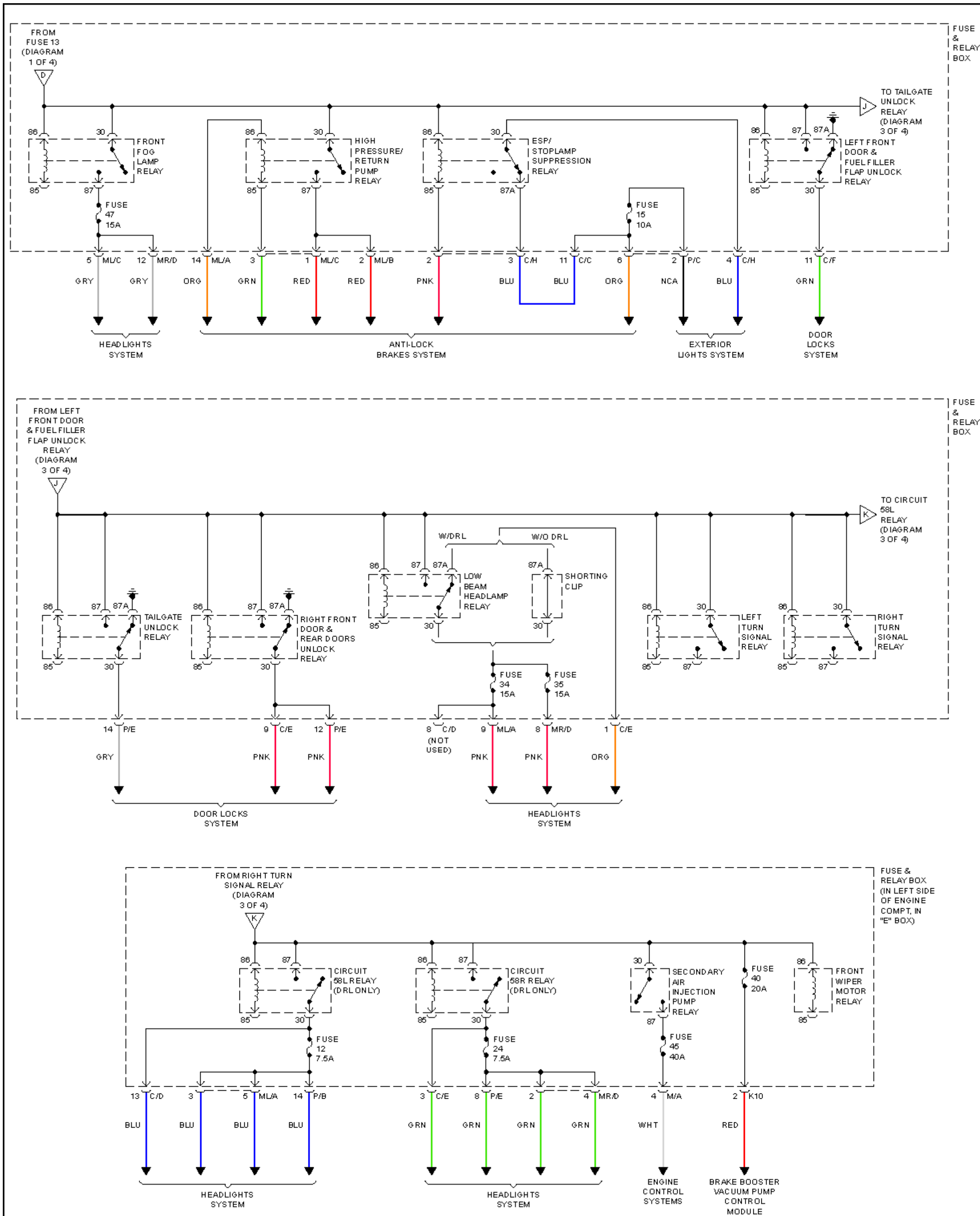


Fig. 38: Power Distribution Circuit (1 of 4)



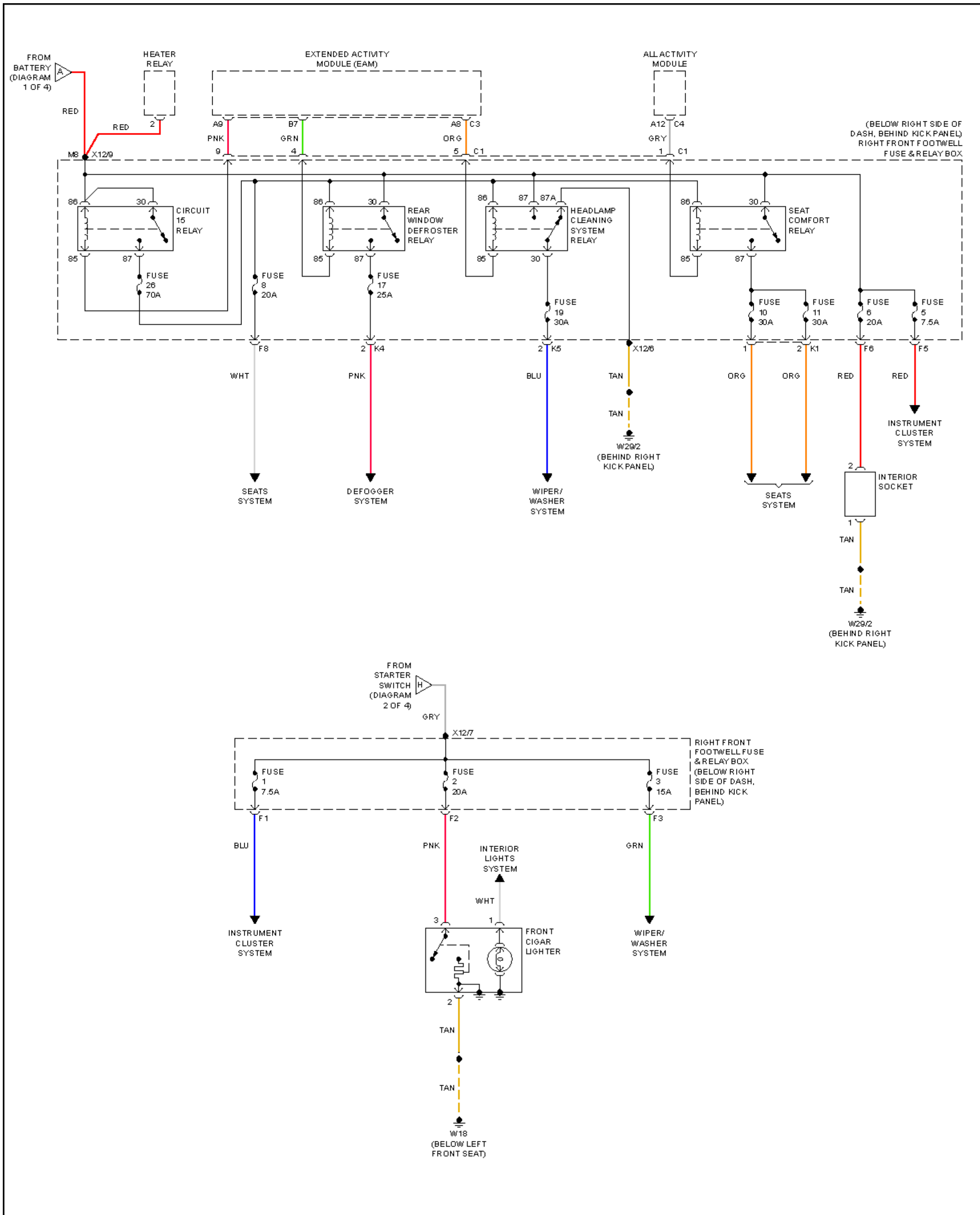
FROM STARTER SWITCH (DIAGRAM 1 OF 4)
TO RIGHT FRONT FOOTWELL FUSE & RELAY BOX (DIAGRAM 4 OF 4)
EXTENDED ACTIVITY MODULE (EAM)
ALL ACTIVITY MODULE
FUSE & RELAY BOX
FRONT WIPER MOTOR RELAY
FUSE 10 10A
FUSE 7 30A
FUSE 2 7.5A
FUSE 25 7.5A
SUPPLEMENTAL RESTRAINTS SYSTEM
SOUND SYSTEMS
WIPER/ WASHER SYSTEM
INTERIOR LIGHTS SYSTEM
INTERIOR LIGHTS SYSTEM, TRIP COMPUTER CONTROL MODULE, GARAGE DOOR OPENER TRANSMITTER, MIRRORS SYSTEM
EXTERIOR LIGHTS SYSTEM
FROM FUEL PUMP RELAY (DIAGRAM 1 OF 4)
CONVENIENCE RELAY
TO ALARM HORN RELAY (DIAGRAM 2 OF 4)
LEFT FRONT POWER WINDOW RELAY
RIGHT FRONT POWER WINDOW RELAY
CIRCUIT 58 RELAY
REAR FOG LAMP RELAY
FUSE 28 20A
FUSE 31 15A
FUSE 32
FUSE 33
FUSE 29 30A
FUSE 30 30A
FUSE 9 7.5A
FUSE 46 7.5A
POWER WINDOWS SYSTEM, MIRRORS SYSTEM, POWER TOPS SYSTEM
POWER WINDOWS SYSTEM
EXTERIOR LIGHTS SYSTEM
HEADLIGHTS SYSTEM
FROM CONVENIENCE RELAY (DIAGRAM 2 OF 4)
ALARM HORN RELAY
CENTRAL LOCKING, ALL DOORS LOCK RELAY
TWO-TONE HORN RELAY
CIRCULATION PUMP RELAY
ENGINE COOLING FAN STAGE 1 RELAY
REAR WASHER PUMP RELAY
BLOWER MOTOR RELAY
FUSE 41 25A
FUSE 44 30A
FUSE 43 30A
FUSE 48 20A
FUSE 42 20A
FUSE 37 20A
ANTI-THEFT SYSTEM
DOOR LOCKS SYSTEM
HORNS SYSTEM
COOLING FANS SYSTEM
WIPER/ WASHER SYSTEM
A/C SYSTEM
157606

Fig. 39: Power Distribution Circuit (2 of 4)



FUSE & RELAY BOX
FROM FUSE 13 (DIAGRAM 1 OF 4)
FRONT FOG LAMP RELAY
HIGH PRESSURE/ RETURN PUMP RELAY
ESP/ STOPLAMP SUPPRESSION RELAY
LEFT FRONT DOOR & FUEL FILLER FLAP UNLOCK RELAY
TO TAILGATE UNLOCK RELAY (DIAGRAM 3 OF 4)
FUSE 47 15A
FUSE 15 10A
HEADLIGHTS SYSTEM
ANTI-LOCK BRAKES SYSTEM
EXTERIOR LIGHTS SYSTEM
DOOR LOCKS SYSTEM
FROM LEFT FRONT DOOR & FUEL FILLER FLAP UNLOCK RELAY (DIAGRAM 3 OF 4)
TO CIRCUIT 58L RELAY (DIAGRAM 3 OF 4)
W/DRL
W/O DRL
TAILGATE UNLOCK RELAY
RIGHT FRONT DOOR & REAR DOORS UNLOCK RELAY
LOW BEAM HEADLAMP RELAY
SHORTING CLIP
LEFT TURN SIGNAL RELAY
RIGHT TURN SIGNAL RELAY
FUSE 34 15A
FUSE 35 15A
(NOT USED)
DOOR LOCKS SYSTEM
HEADLIGHTS SYSTEM
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
FROM RIGHT TURN SIGNAL RELAY (DIAGRAM 3 OF 4)
CIRCUIT 58L RELAY (DRL ONLY)
CIRCUIT 58R RELAY (DRL ONLY)
SECONDARY AIR INJECTION PUMP RELAY
FRONT WIPER MOTOR RELAY
FUSE 12 7.5A
FUSE 24 7.5A
FUSE 45 40A
FUSE 40 20A
HEADLIGHTS SYSTEM
HEADLIGHTS SYSTEM
ENGINE CONTROL SYSTEMS
BRAKE BOOSTER VACUUM PUMP CONTROL MODULE
157607

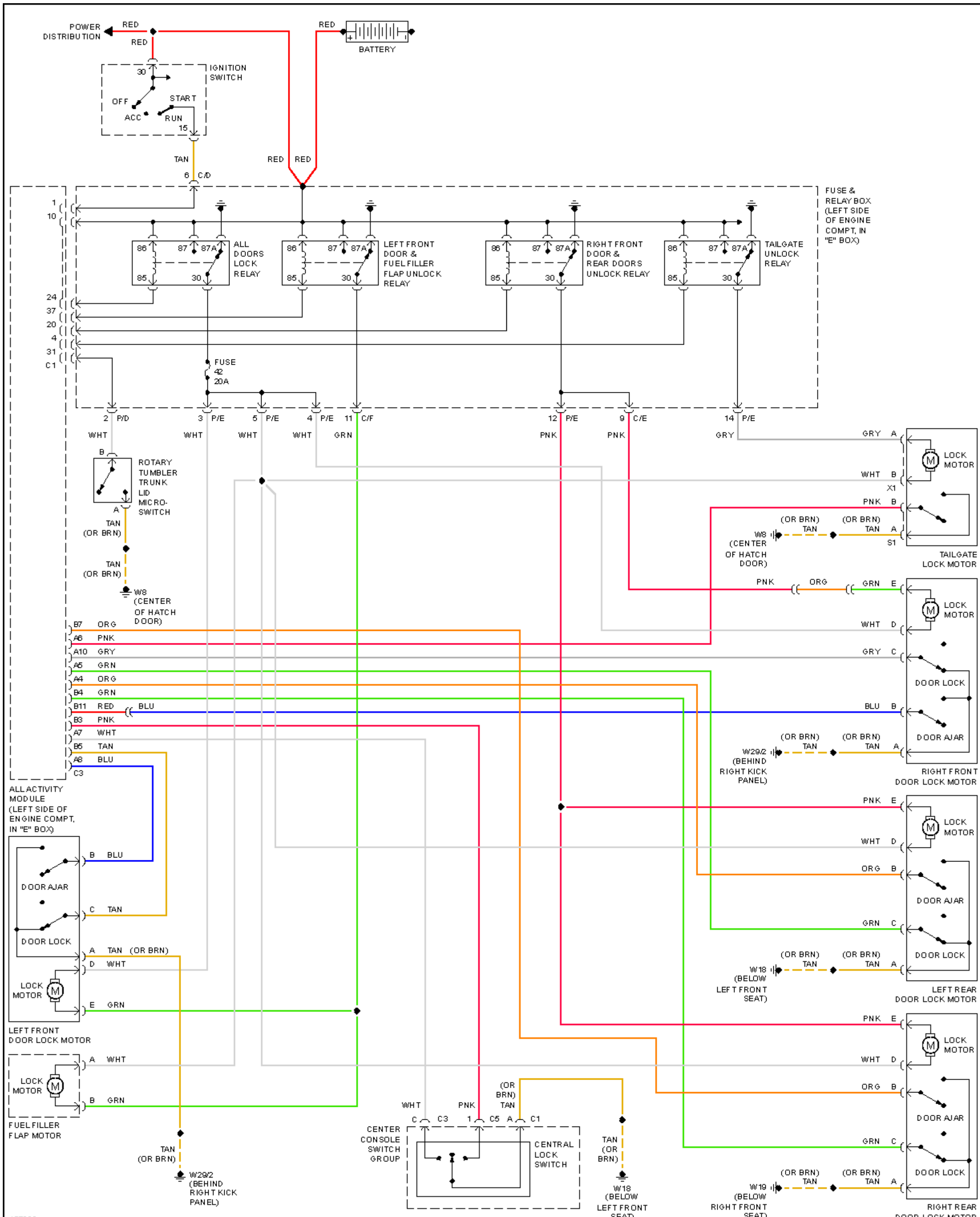
Fig. 40: Power Distribution Circuit (3 of 4)



FROM BATTERY (DIAGRAM 1 OF 4)
A
HEATER RELAY
EXTENDED ACTIVITY MODULE (EAM)
ALL ACTIVITY MODULE
RED
RED
2
A9
B7
A8
C3
A12
C4
PNK
GRN
ORG
GRY
M8
X12/9
9
4
5
C1
1
C1
(BELOW RIGHT SIDE OF DASH, BEHIND KICK PANEL) RIGHT FRONT FOOTWELL FUSE & RELAY BOX
86
30
CIRCUIT 15 RELAY
85
87
86
30
REAR WINDOW DEFROSTER RELAY
85
87
86
87
87A
HEADLAMP CLEANING SYSTEM RELAY
85
30
86
30
SEAT COMFORT RELAY
85
87
FUSE 26 70A
FUSE 8 20A
FUSE 17 25A
FUSE 19 30A
FUSE 10 30A
FUSE 11 30A
FUSE 6 20A
FUSE 5 7.5A
F8
2
K4
2
K5
X12/6
1
2
K1
F6
F5
WHT
PNK
BLU
TAN
TAN
ORG
ORG
RED
RED
W29/2 (BEHIND RIGHT KICK PANEL)
SEATS SYSTEM
DEFOGGER SYSTEM
WIPER/ WASHER SYSTEM
SEATS SYSTEM
INSTRUMENT CLUSTER SYSTEM
2
INTERIOR SOCKET
1
TAN
TAN
W29/2 (BEHIND RIGHT KICK PANEL)
FROM STARTER SWITCH (DIAGRAM 2 OF 4)
H
GRY
X12/7
RIGHT FRONT FOOTWELL FUSE & RELAY BOX (BELOW RIGHT SIDE OF DASH, BEHIND KICK PANEL)
FUSE 1 7.5A
FUSE 2 20A
FUSE 3 15A
F1
F2
F3
BLU
PNK
GRN
INTERIOR LIGHTS SYSTEM
WHT
3
1
FRONT CIGAR LIGHTER
INSTRUMENT CLUSTER SYSTEM
WIPER/ WASHER SYSTEM
2
TAN
TAN
W18 (BELOW LEFT FRONT SEAT)
157608

Fig. 41: Power Distribution Circuit (4 of 4)

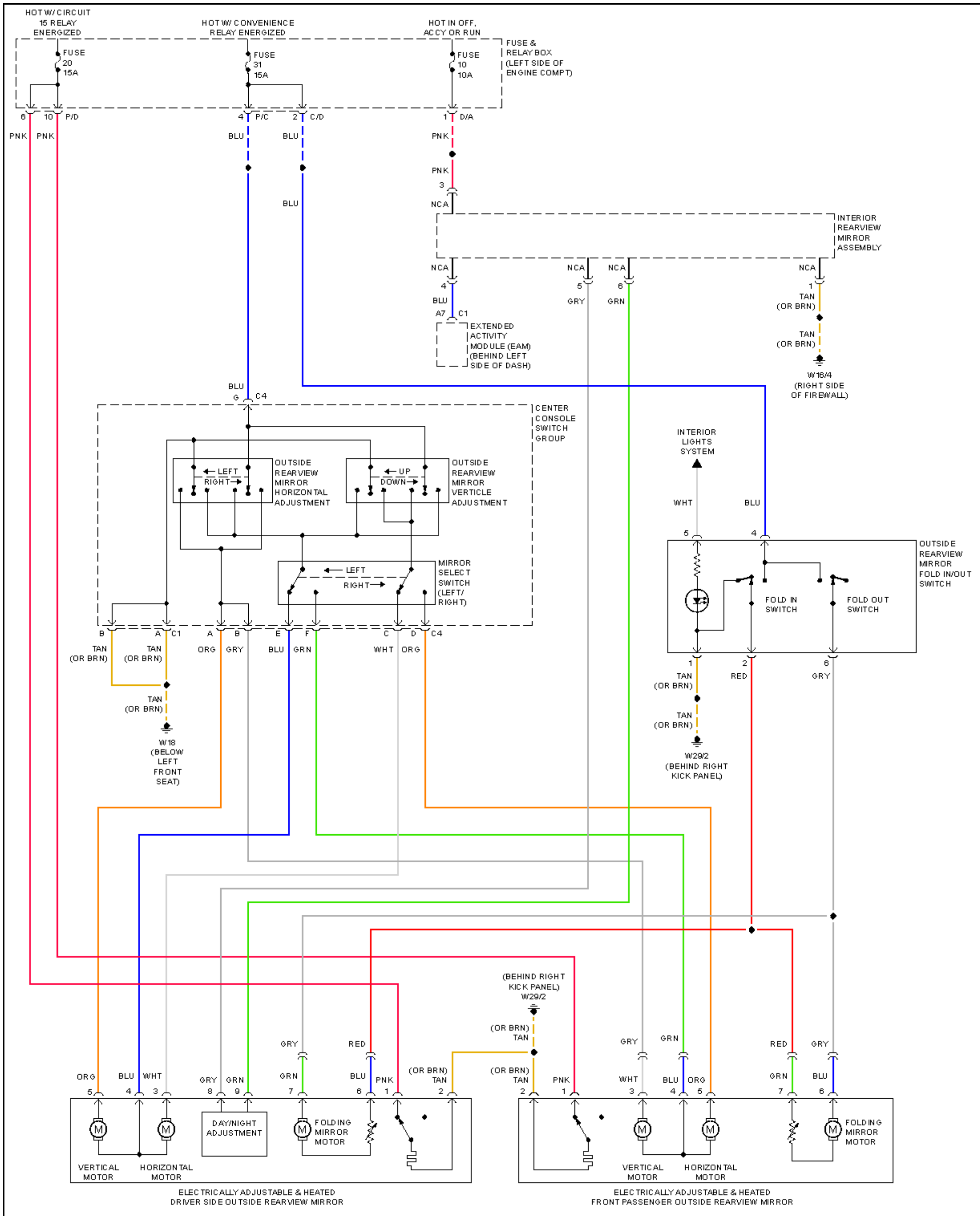
POWER DOOR LOCKS



POWER DISTRIBUTION
RED
BATTERY
IGNITION SWITCH
30
OFF
ACC
START
RUN
15
TAN
6 C/D
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
86
87
87A
85
30
ALL DOORS LOCK RELAY
LEFT FRONT DOOR & FUEL FILLER FLAP UNLOCK RELAY
RIGHT FRONT DOOR & REAR DOORS UNLOCK RELAY
TAILGATE UNLOCK RELAY
FUSE 42 20A
2 P/D
3 P/E
5 P/E
4 P/E
11 C/F
12 P/E
9 C/E
14 P/E
WHT
GRN
PNK
GRY
ROTARY TUMBLER TRUNK LID MICRO-SWITCH
TAN (OR BRN)
W8 (CENTER OF HATCH DOOR)
LOCK MOTOR
X1
S1
TAILGATE LOCK MOTOR
ORG
RIGHT FRONT DOOR LOCK MOTOR
DOOR LOCK
DOOR AJAR
BLU
W29/2 (BEHIND RIGHT KICK PANEL)
ALL ACTIVITY MODULE (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
B7 ORG
A6 PNK
A10 GRY
A5 GRN
A4 ORG
B4 GRN
B11 RED
B3 PNK
A7 WHT
B5 TAN
A8 BLU
C3
LEFT FRONT DOOR LOCK MOTOR
LEFT REAR DOOR LOCK MOTOR
W18 (BELOW LEFT FRONT SEAT)
FUEL FILLER FLAP MOTOR
CENTER CONSOLE SWITCH GROUP
CENTRAL LOCK SWITCH
C3
C5
C1
RIGHT REAR DOOR LOCK MOTOR
W19 (BELOW RIGHT FRONT SEAT)
157696

Fig. 42: Power Door Locks Circuit

POWER MIRRORS



HOT W/ CIRCUIT 15 RELAY ENERGIZED
HOT W/ CONVENIENCE RELAY ENERGIZED
HOT IN OFF, ACCY OR RUN
FUSE 20 15A
FUSE 31 15A
FUSE 10 10A
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
P/D
P/C
C/D
D/A
PNK
BLU
NCA
INTERIOR REARVIEW MIRROR ASSEMBLY
GRY
GRN
TAN (OR BRN)
EXTENDED ACTIVITY MODULE (EAM) (BEHIND LEFT SIDE OF DASH)
W16/4 (RIGHT SIDE OF FIREWALL)
CENTER CONSOLE SWITCH GROUP
OUTSIDE REARVIEW MIRROR HORIZONTAL ADJUSTMENT
LEFT
RIGHT
OUTSIDE REARVIEW MIRROR VERTICLE ADJUSTMENT
UP
DOWN
MIRROR SELECT SWITCH (LEFT/ RIGHT)
INTERIOR LIGHTS SYSTEM
WHT
OUTSIDE REARVIEW MIRROR FOLD IN/OUT SWITCH
FOLD IN SWITCH
FOLD OUT SWITCH
RED
ORG
W18 (BELOW LEFT FRONT SEAT)
W29/2 (BEHIND RIGHT KICK PANEL)
(BEHIND RIGHT KICK PANEL) W29/2
VERTICAL MOTOR
HORIZONTAL MOTOR
DAY/NIGHT ADJUSTMENT
FOLDING MIRROR MOTOR
ELECTRICALLY ADJUSTABLE & HEATED DRIVER SIDE OUTSIDE REARVIEW MIRROR
ELECTRICALLY ADJUSTABLE & HEATED FRONT PASSENGER OUTSIDE REARVIEW MIRROR
157813

Fig. 43: Power Mirrors Circuit

POWER SEATS

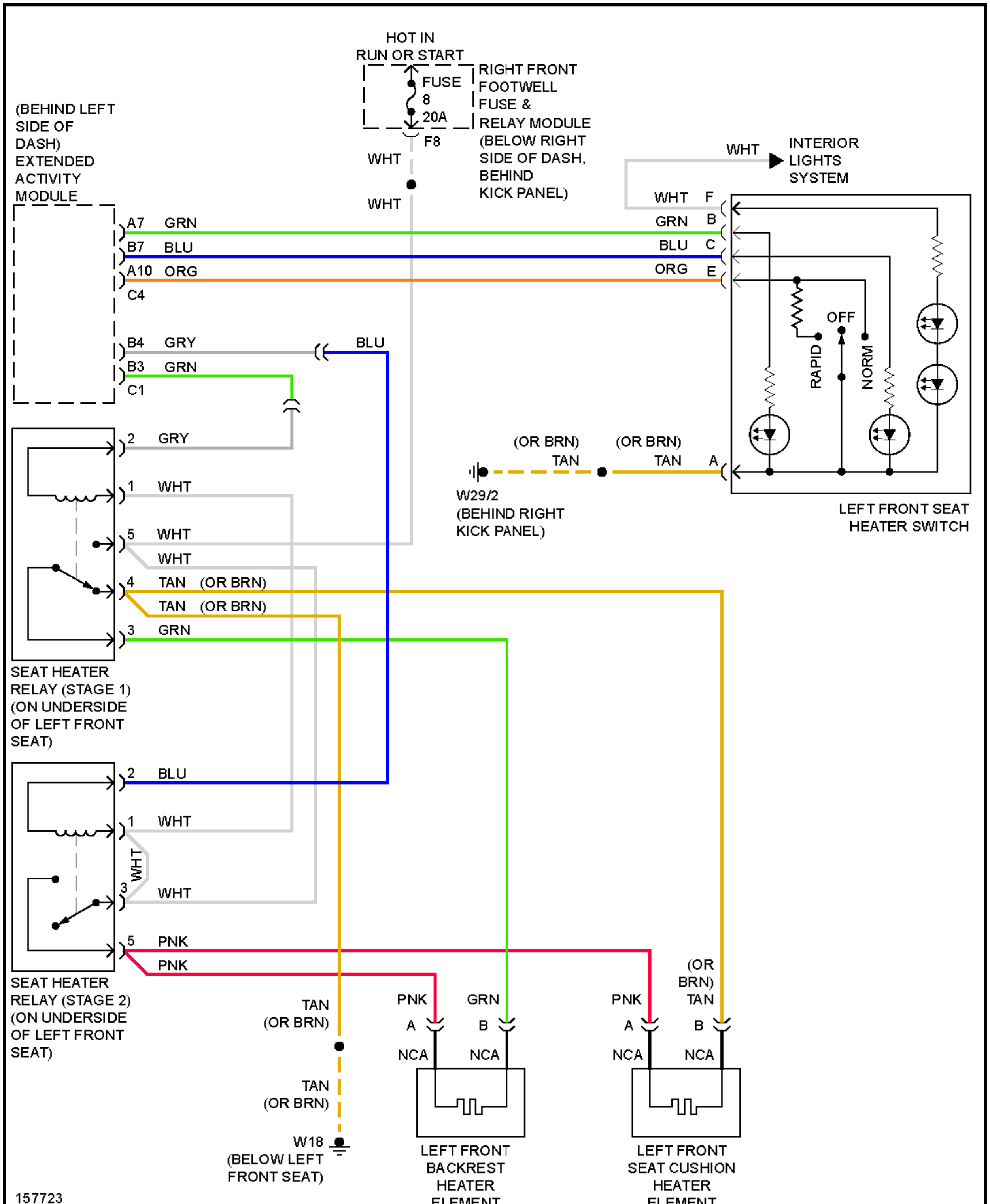

HOT IN RUN OR START
FUSE 8 20A
F8
RIGHT FRONT FOOTWELL FUSE & RELAY MODULE (BELOW RIGHT SIDE OF DASH, BEHIND KICK PANEL)
(BEHIND LEFT SIDE OF DASH) EXTENDED ACTIVITY MODULE
WHT
WHT
INTERIOR LIGHTS SYSTEM
A7 GRN
B7 BLU
A10 ORG
C4
B4 GRY
B3 GRN
C1
BLU
WHT F
GRN B
BLU C
ORG E
OFF
RAPID
NORM
(OR BRN) TAN
(OR BRN) TAN
A
W29/2 (BEHIND RIGHT KICK PANEL)
LEFT FRONT SEAT HEATER SWITCH
2 GRY
1 WHT
5 WHT
WHT
4 TAN (OR BRN)
TAN (OR BRN)
3 GRN
SEAT HEATER RELAY (STAGE 1) (ON UNDERSIDE OF LEFT FRONT SEAT)
2 BLU
1 WHT
WHT
3 WHT
5 PNK
PNK
SEAT HEATER RELAY (STAGE 2) (ON UNDERSIDE OF LEFT FRONT SEAT)
TAN (OR BRN)
TAN (OR BRN)
W18 (BELOW LEFT FRONT SEAT)
PNK
GRN
A
B
NCA
NCA
LEFT FRONT BACKREST HEATER ELEMENT
PNK
(OR BRN) TAN
A
B
NCA
NCA
LEFT FRONT SEAT CUSHION HEATER ELEMENT
157723

Fig. 44: Driver Heated Seat Circuit

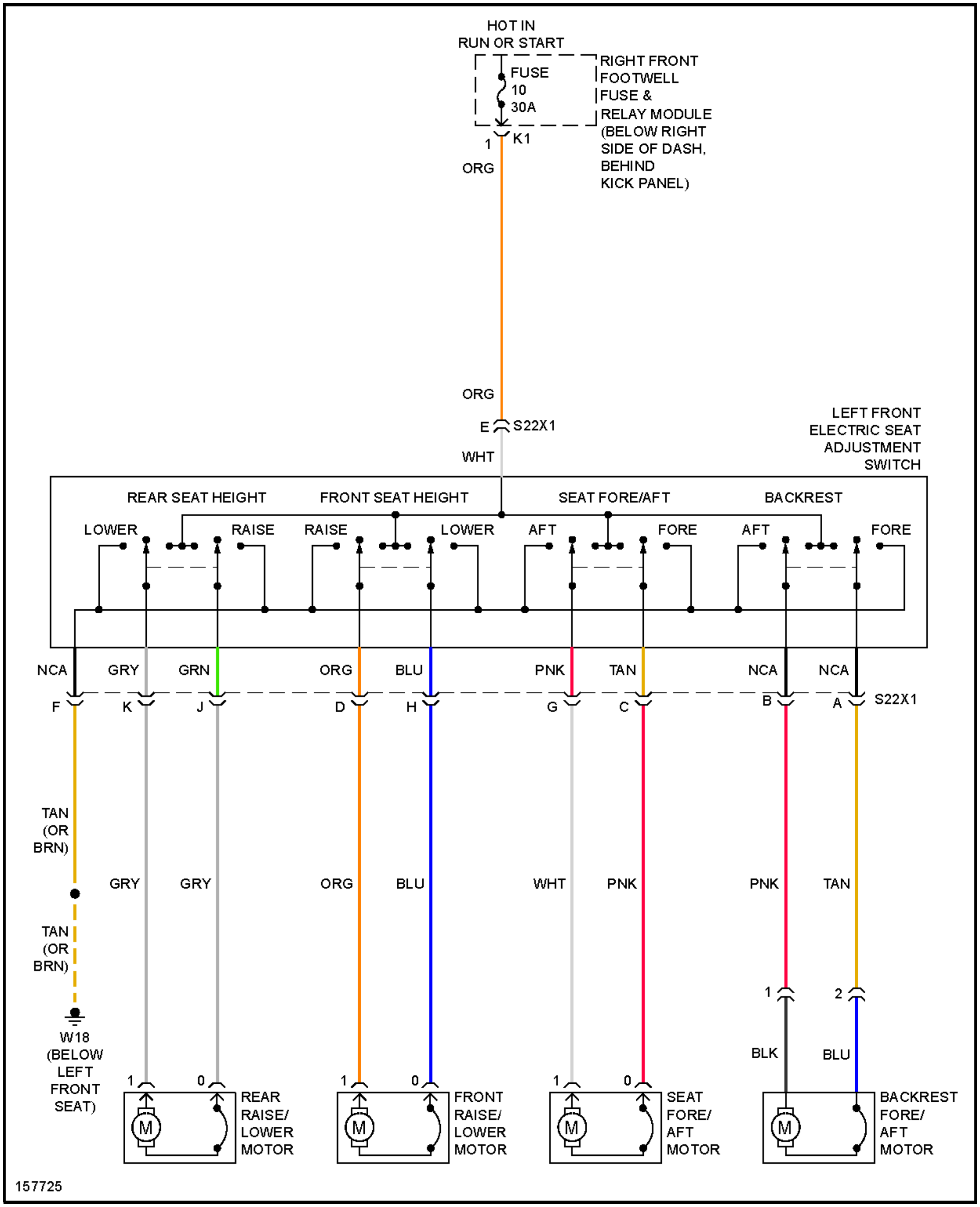

HOT IN RUN OR START
FUSE 10 30A
RIGHT FRONT FOOTWELL FUSE & RELAY MODULE (BELOW RIGHT SIDE OF DASH, BEHIND KICK PANEL)
1 K1
ORG
ORG
E S22X1
WHT
LEFT FRONT ELECTRIC SEAT ADJUSTMENT SWITCH
REAR SEAT HEIGHT
FRONT SEAT HEIGHT
SEAT FORE/AFT
BACKREST
LOWER
RAISE
RAISE
LOWER
AFT
FORE
AFT
FORE
NCA
GRY
GRN
ORG
BLU
PNK
TAN
NCA
NCA
S22X1
F
K
J
D
H
G
C
B
A
TAN (OR BRN)
TAN (OR BRN)
GRY
GRY
ORG
BLU
WHT
PNK
PNK
TAN
1
2
BLK
BLU
W18 (BELOW LEFT FRONT SEAT)
1
0
1
0
1
0
REAR RAISE/ LOWER MOTOR
FRONT RAISE/ LOWER MOTOR
SEAT FORE/ AFT MOTOR
BACKREST FORE/ AFT MOTOR
M
157725

Fig. 45: Driver Power Seat Circuit

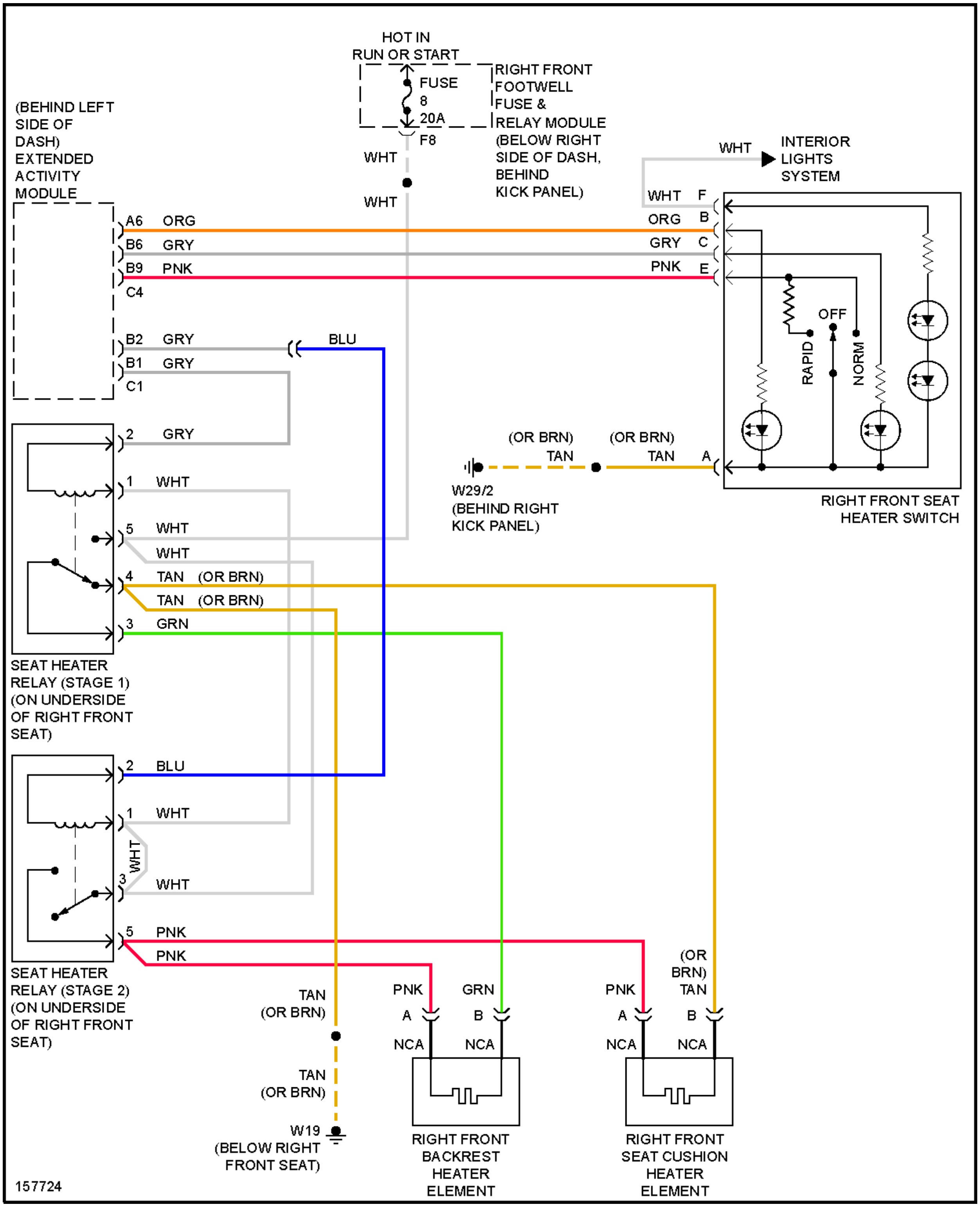

HOT IN RUN OR START
FUSE 8 20A
F8
RIGHT FRONT FOOTWELL FUSE & RELAY MODULE (BELOW RIGHT SIDE OF DASH, BEHIND KICK PANEL)
(BEHIND LEFT SIDE OF DASH) EXTENDED ACTIVITY MODULE
WHT
INTERIOR LIGHTS SYSTEM
A6 ORG
B6 GRY
B9 PNK
C4
B2 GRY
B1 GRY
C1
BLU
WHT F
ORG B
GRY C
PNK E
OFF
RAPID
NORM
(OR BRN) TAN
TAN A
W29/2 (BEHIND RIGHT KICK PANEL)
RIGHT FRONT SEAT HEATER SWITCH
2 GRY
1 WHT
5 WHT
4 TAN (OR BRN)
TAN (OR BRN)
3 GRN
SEAT HEATER RELAY (STAGE 1) (ON UNDERSIDE OF RIGHT FRONT SEAT)
2 BLU
1 WHT
3 WHT
5 PNK
PNK
SEAT HEATER RELAY (STAGE 2) (ON UNDERSIDE OF RIGHT FRONT SEAT)
TAN (OR BRN)
W19 (BELOW RIGHT FRONT SEAT)
PNK A NCA
GRN B NCA
PNK A NCA
(OR BRN) TAN B NCA
RIGHT FRONT BACKREST HEATER ELEMENT
RIGHT FRONT SEAT CUSHION HEATER ELEMENT
157724

Fig. 46: Passenger Heated Seat Circuit

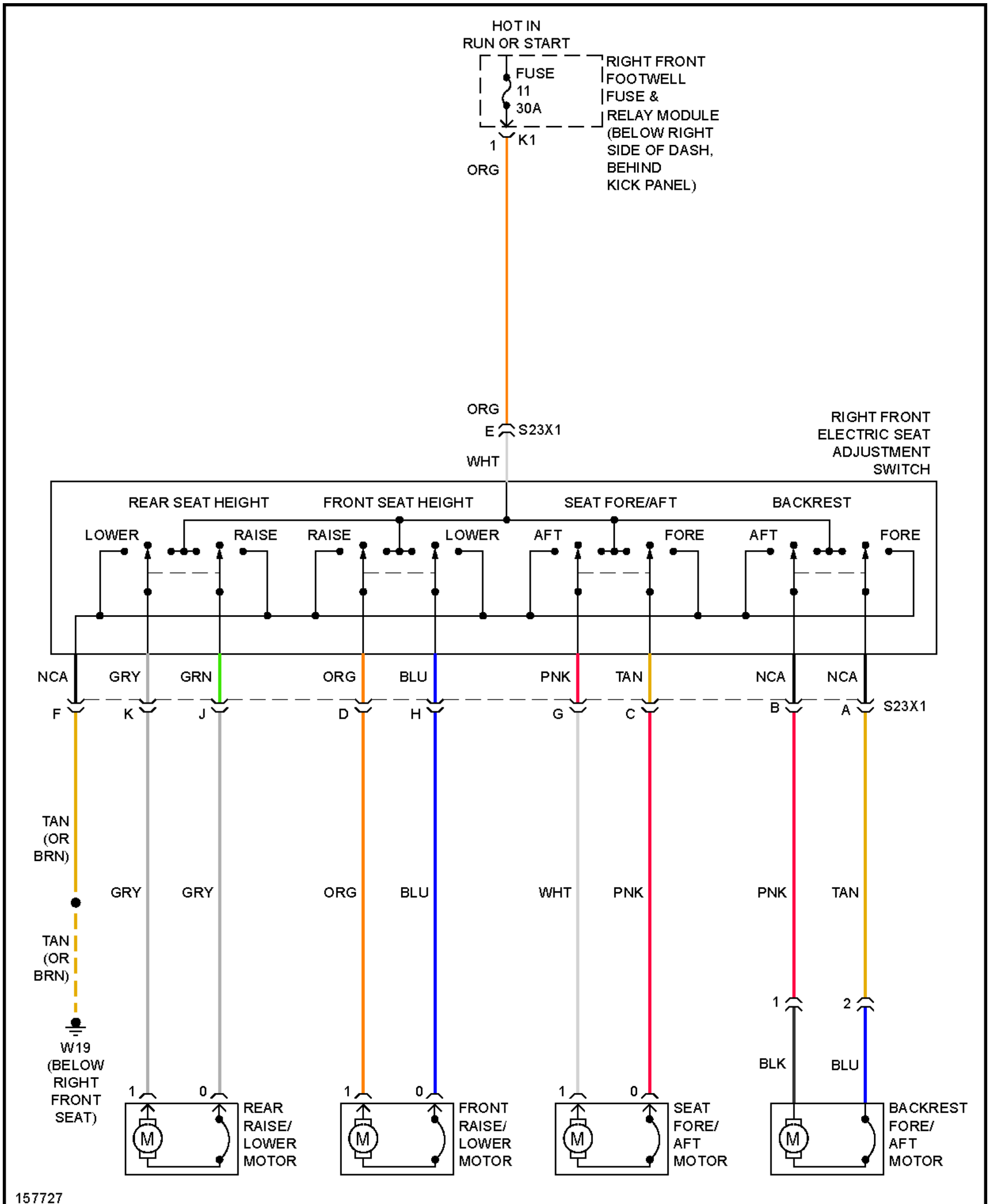

HOT IN
RUN OR START
FUSE
11
30A
RIGHT FRONT
FOOTWELL
FUSE &
RELAY MODULE
(BELOW RIGHT
SIDE OF DASH,
BEHIND
KICK PANEL)
1
K1
ORG
ORG
E
S23X1
WHT
RIGHT FRONT
ELECTRIC SEAT
ADJUSTMENT
SWITCH
REAR SEAT HEIGHT
FRONT SEAT HEIGHT
SEAT FORE/AFT
BACKREST
LOWER
RAISE
RAISE
LOWER
AFT
FORE
AFT
FORE
NCA
GRY
GRN
ORG
BLU
PNK
TAN
NCA
NCA
F
K
J
D
H
G
C
B
A
S23X1
TAN
(OR
BRN)
GRY
GRY
ORG
BLU
WHT
PNK
PNK
TAN
TAN
(OR
BRN)
1
2
BLK
BLU
W19
(BELOW
RIGHT
FRONT
SEAT)
1
0
REAR
RAISE/
LOWER
MOTOR
1
0
FRONT
RAISE/
LOWER
MOTOR
1
0
SEAT
FORE/
AFT
MOTOR
BACKREST
FORE/
AFT
MOTOR
M
M
M
M
157727

Fig. 47: Passenger"s Power Seat Circuit

POWER TOP/SUNROOF

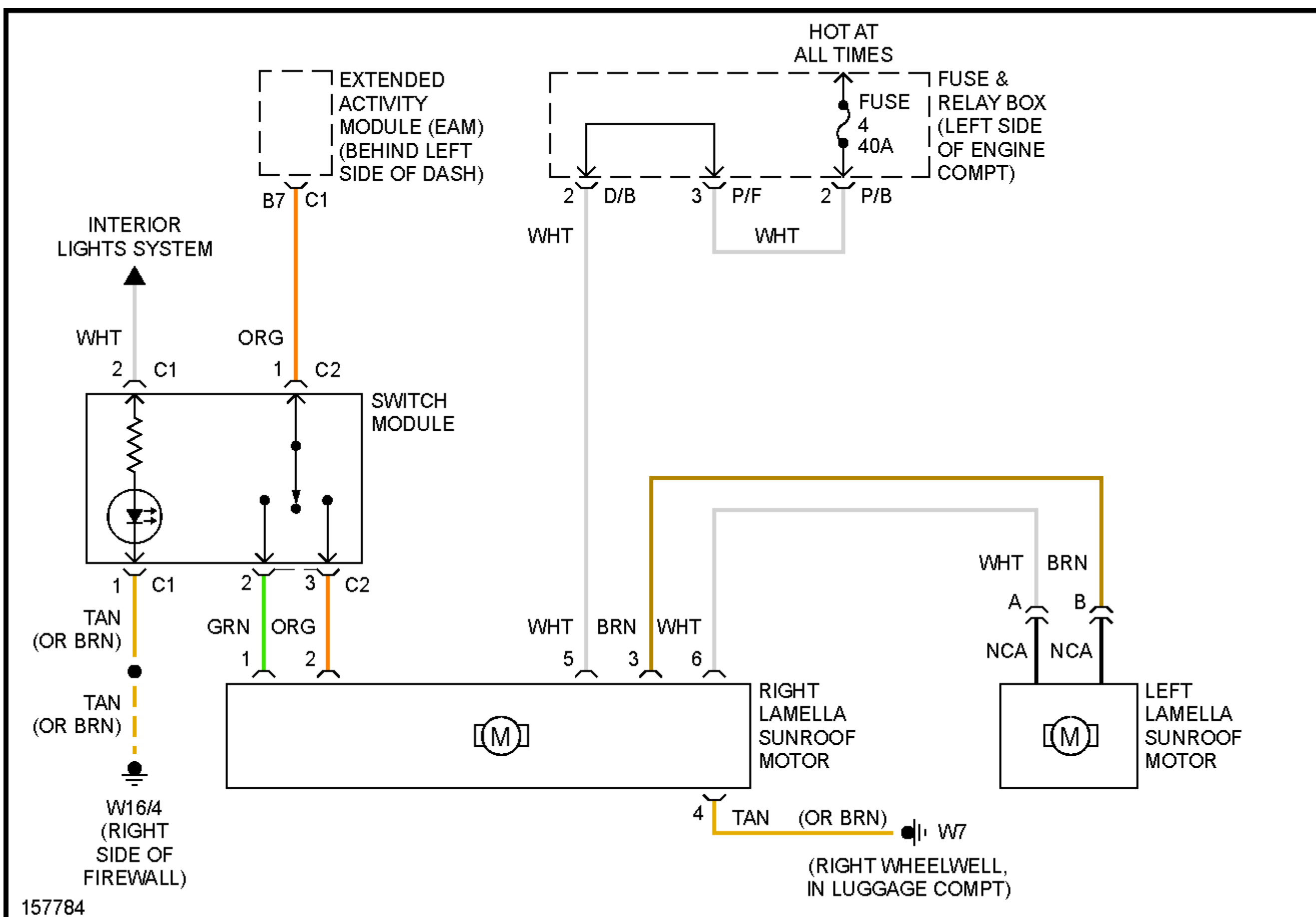
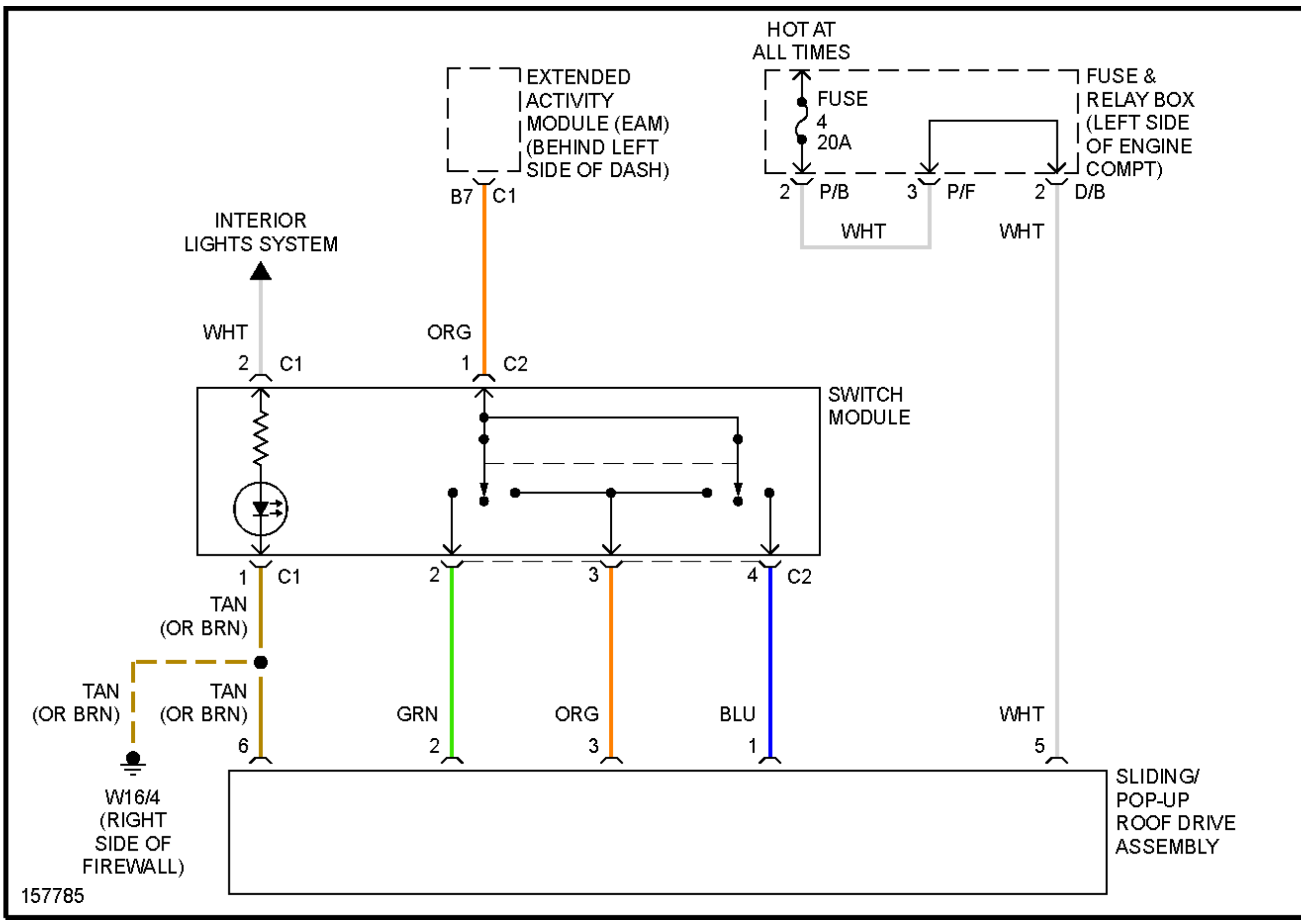

HOT AT ALL TIMES
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
FUSE 4 40A
EXTENDED ACTIVITY MODULE (EAM) (BEHIND LEFT SIDE OF DASH)
B7 C1
2 D/B
3 P/F
2 P/B
WHT
WHT
INTERIOR LIGHTS SYSTEM
WHT
ORG
2 C1
1 C2
SWITCH MODULE
1 C1
2
3 C2
TAN (OR BRN)
GRN
ORG
1
2
TAN (OR BRN)
W16/4 (RIGHT SIDE OF FIREWALL)
WHT
BRN
WHT
5
3
6
WHT
BRN
A
B
NCA
NCA
RIGHT LAMELLA SUNROOF MOTOR
LEFT LAMELLA SUNROOF MOTOR
M
M
4
TAN (OR BRN)
W7
(RIGHT WHEELWELL, IN LUGGAGE COMPT)
157784

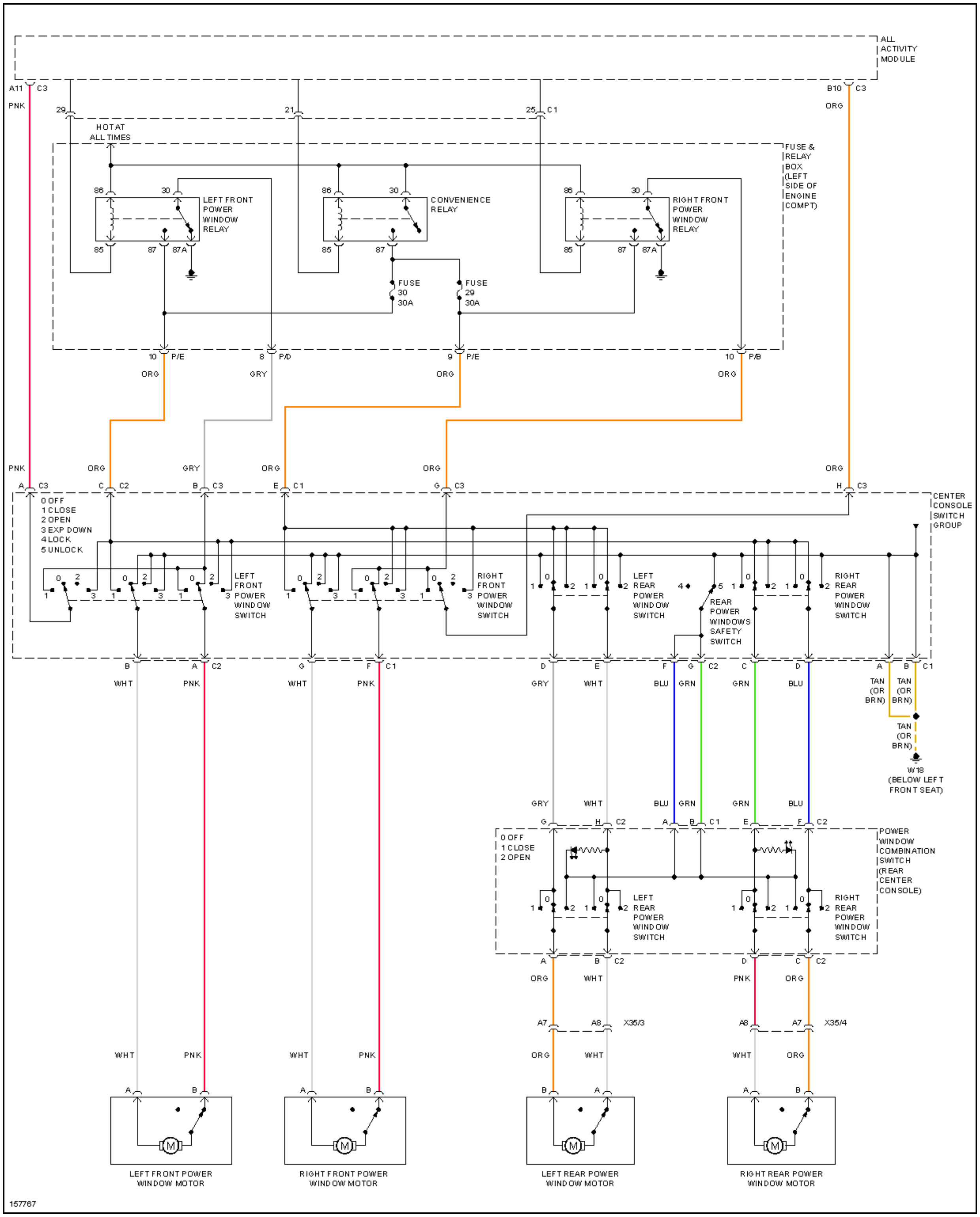
Fig. 48: Double Panel Sunroof Circuit



HOT AT ALL TIMES
EXTENDED ACTIVITY MODULE (EAM) (BEHIND LEFT SIDE OF DASH)
FUSE 4 20A
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
B7 C1
2 P/B
3 P/F
2 D/B
WHT
WHT
INTERIOR LIGHTS SYSTEM
WHT
ORG
2 C1
1 C2
SWITCH MODULE
1 C1
2
3
4 C2
TAN (OR BRN)
TAN (OR BRN)
TAN (OR BRN)
GRN
ORG
BLU
WHT
6
2
3
1
5
W16/4 (RIGHT SIDE OF FIREWALL)
SLIDING/ POP-UP ROOF DRIVE ASSEMBLY
157785

Fig. 49: Single Panel Sunroof Circuit

POWER WINDOWS



ALL ACTIVITY MODULE
HOT AT ALL TIMES
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
LEFT FRONT POWER WINDOW RELAY
CONVENIENCE RELAY
RIGHT FRONT POWER WINDOW RELAY
FUSE 30 30A
FUSE 29 30A
CENTER CONSOLE SWITCH GROUP
0 OFF
1 CLOSE
2 OPEN
3 EXP DOWN
4 LOCK
5 UNLOCK
LEFT FRONT POWER WINDOW SWITCH
RIGHT FRONT POWER WINDOW SWITCH
LEFT REAR POWER WINDOW SWITCH
REAR POWER WINDOWS SAFETY SWITCH
RIGHT REAR POWER WINDOW SWITCH
W18 (BELOW LEFT FRONT SEAT)
POWER WINDOW COMBINATION SWITCH (REAR CENTER CONSOLE)
X35/3
X35/4
LEFT FRONT POWER WINDOW MOTOR
RIGHT FRONT POWER WINDOW MOTOR
LEFT REAR POWER WINDOW MOTOR
RIGHT REAR POWER WINDOW MOTOR
157767

Fig. 50: Power Windows Circuit

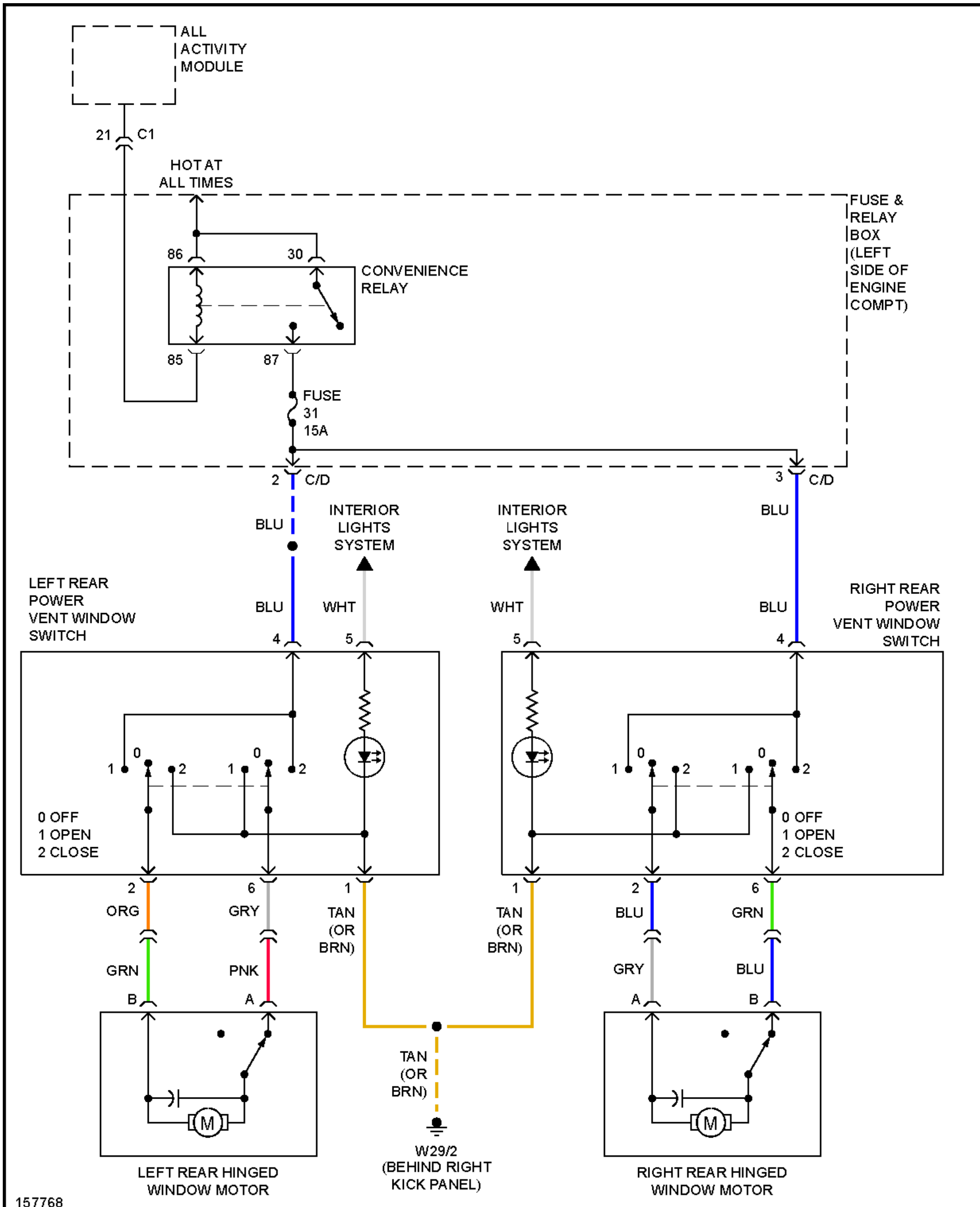

ALL ACTIVITY MODULE
21
C1
HOT AT ALL TIMES
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
86
30
CONVENIENCE RELAY
85
87
FUSE 31 15A
2
C/D
3
C/D
BLU
INTERIOR LIGHTS SYSTEM
INTERIOR LIGHTS SYSTEM
BLU
LEFT REAR POWER VENT WINDOW SWITCH
BLU
WHT
WHT
BLU
RIGHT REAR POWER VENT WINDOW SWITCH
4
5
5
4
0 OFF
1 OPEN
2 CLOSE
0 OFF
1 OPEN
2 CLOSE
2
6
1
1
2
6
ORG
GRY
TAN (OR BRN)
TAN (OR BRN)
BLU
GRN
GRN
PNK
GRY
BLU
B
A
A
B
M
M
TAN (OR BRN)
W29/2 (BEHIND RIGHT KICK PANEL)
LEFT REAR HINGED WINDOW MOTOR
RIGHT REAR HINGED WINDOW MOTOR
157768

Fig. 51: Rear Quarter Windows Circuit

RADIO

2001 Mercedes-Benz ML320

2001 SYSTEM WIRING DIAGRAMS Mercedes-Benz - ML320

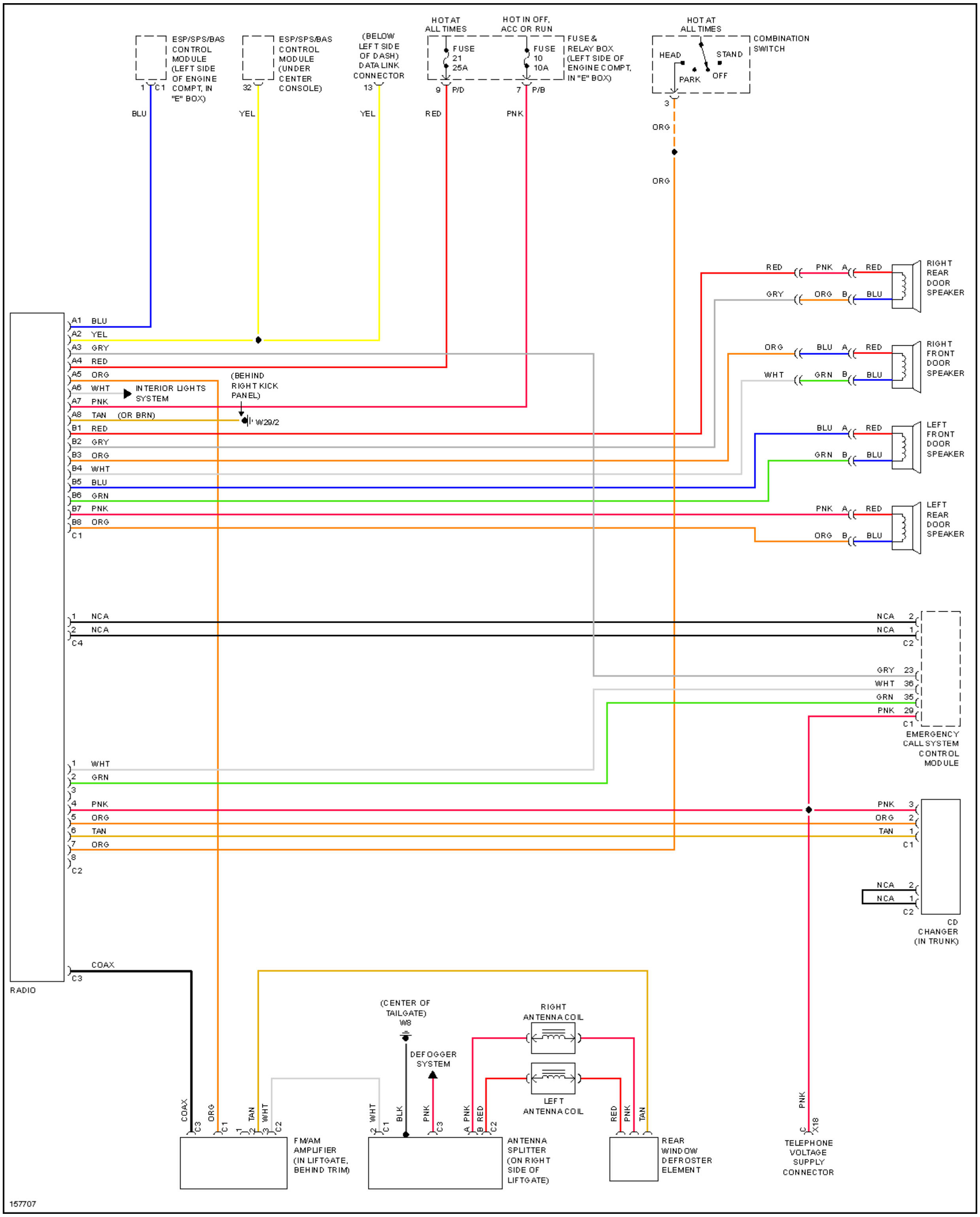


Fig. 52: Base Radio Circuit, W/ Emergency Call System

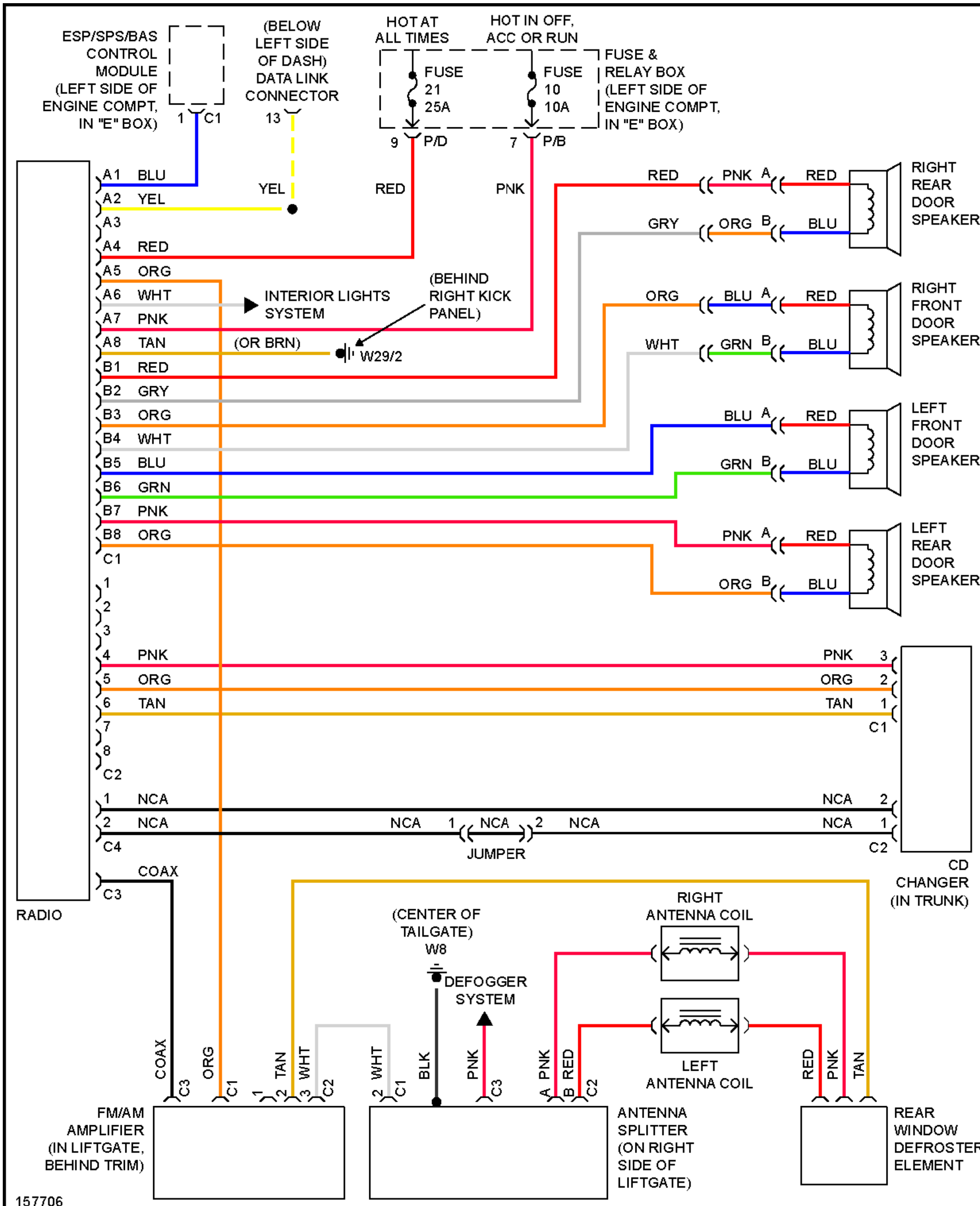
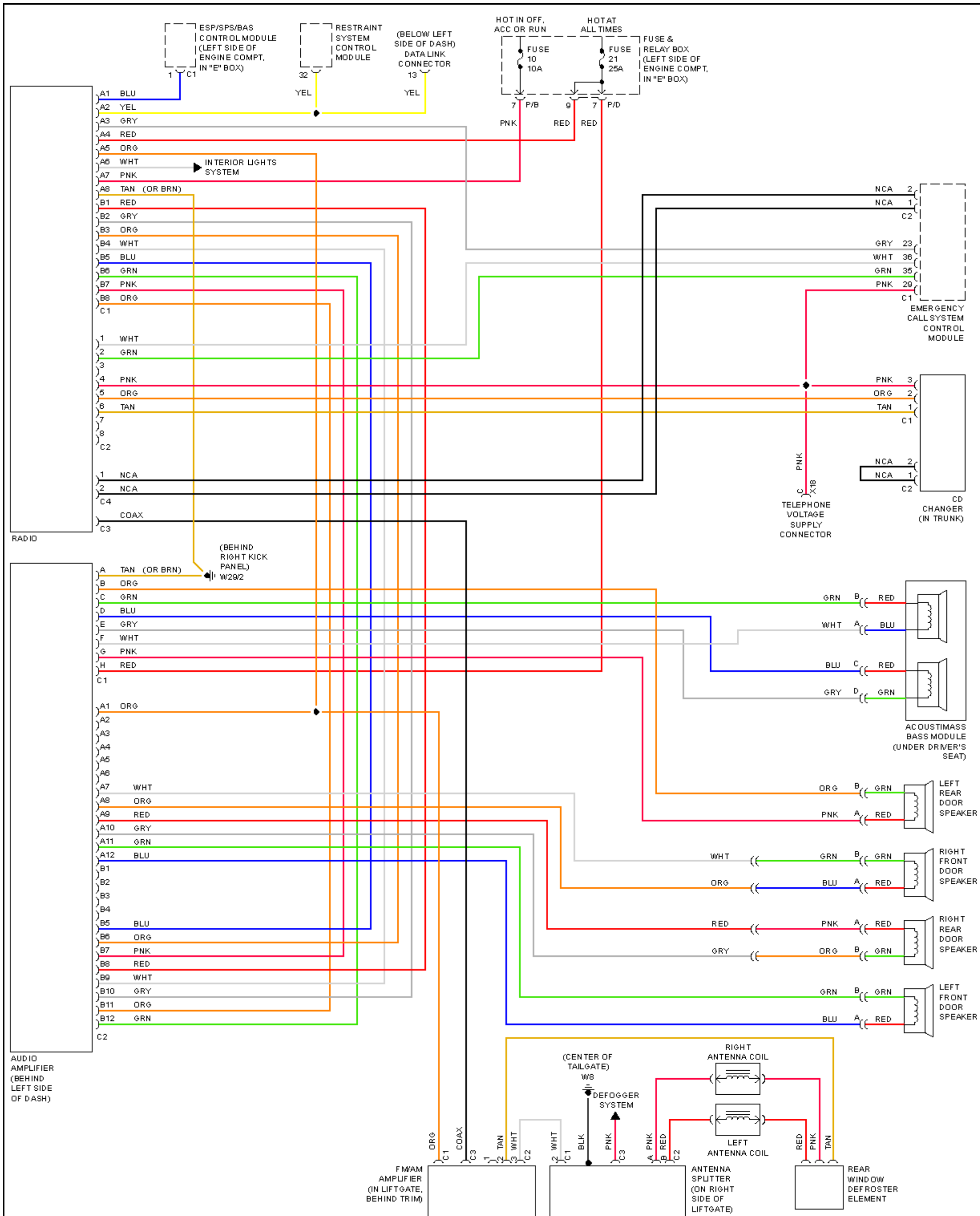

ESP/SPS/BAS CONTROL MODULE (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
(BELOW LEFT SIDE OF DASH) DATA LINK CONNECTOR
HOT AT ALL TIMES
HOT IN OFF, ACC OR RUN
FUSE 21 25A
FUSE 10 10A
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
P/D
P/B
RIGHT REAR DOOR SPEAKER
RIGHT FRONT DOOR SPEAKER
LEFT FRONT DOOR SPEAKER
LEFT REAR DOOR SPEAKER
INTERIOR LIGHTS SYSTEM
(BEHIND RIGHT KICK PANEL)
(OR BRN)
W29/2
A1 BLU
A2 YEL
A3
A4 RED
A5 ORG
A6 WHT
A7 PNK
A8 TAN
B1 RED
B2 GRY
B3 ORG
B4 WHT
B5 BLU
B6 GRN
B7 PNK
B8 ORG
C1
4 PNK
5 ORG
6 TAN
C2
1 NCA
2 NCA
C4
COAX
C3
RADIO
JUMPER
CD CHANGER (IN TRUNK)
RIGHT ANTENNA COIL
LEFT ANTENNA COIL
(CENTER OF TAILGATE) W8
DEFOGGER SYSTEM
FM/AM AMPLIFIER (IN LIFTGATE, BEHIND TRIM)
ANTENNA SPLITTER (ON RIGHT SIDE OF LIFTGATE)
REAR WINDOW DEFROSTER ELEMENT
157706

Fig. 53: Base Radio Circuit, W/O Emergency Call System



ESP/SPS/BAS CONTROL MODULE (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
RESTRAINT SYSTEM CONTROL MODULE
(BELOW LEFT SIDE OF DASH) DATA LINK CONNECTOR
HOT IN OFF, ACC OR RUN
HOT AT ALL TIMES
FUSE 10 10A
FUSE 21 25A
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
INTERIOR LIGHTS SYSTEM
RADIO
EMERGENCY CALL SYSTEM CONTROL MODULE
TELEPHONE VOLTAGE SUPPLY CONNECTOR
CD CHANGER (IN TRUNK)
(BEHIND RIGHT KICK PANEL) W29/2
ACOUSTIMASS BASS MODULE (UNDER DRIVER'S SEAT)
LEFT REAR DOOR SPEAKER
RIGHT FRONT DOOR SPEAKER
RIGHT REAR DOOR SPEAKER
LEFT FRONT DOOR SPEAKER
AUDIO AMPLIFIER (BEHIND LEFT SIDE OF DASH)
(CENTER OF TAILGATE) W8
DEFOGGER SYSTEM
RIGHT ANTENNA COIL
LEFT ANTENNA COIL
FM/AM AMPLIFIER (IN LIFTGATE, BEHIND TRIM)
ANTENNA SPLITTER (ON RIGHT SIDE OF LIFTGATE)
REAR WINDOW DEFROSTER ELEMENT
157712

Fig. 54: Premium Sound Radio Circuit, W/ Emergency Call System

2001 Mercedes-Benz ML320

2001 SYSTEM WIRING DIAGRAMS Mercedes-Benz - ML320

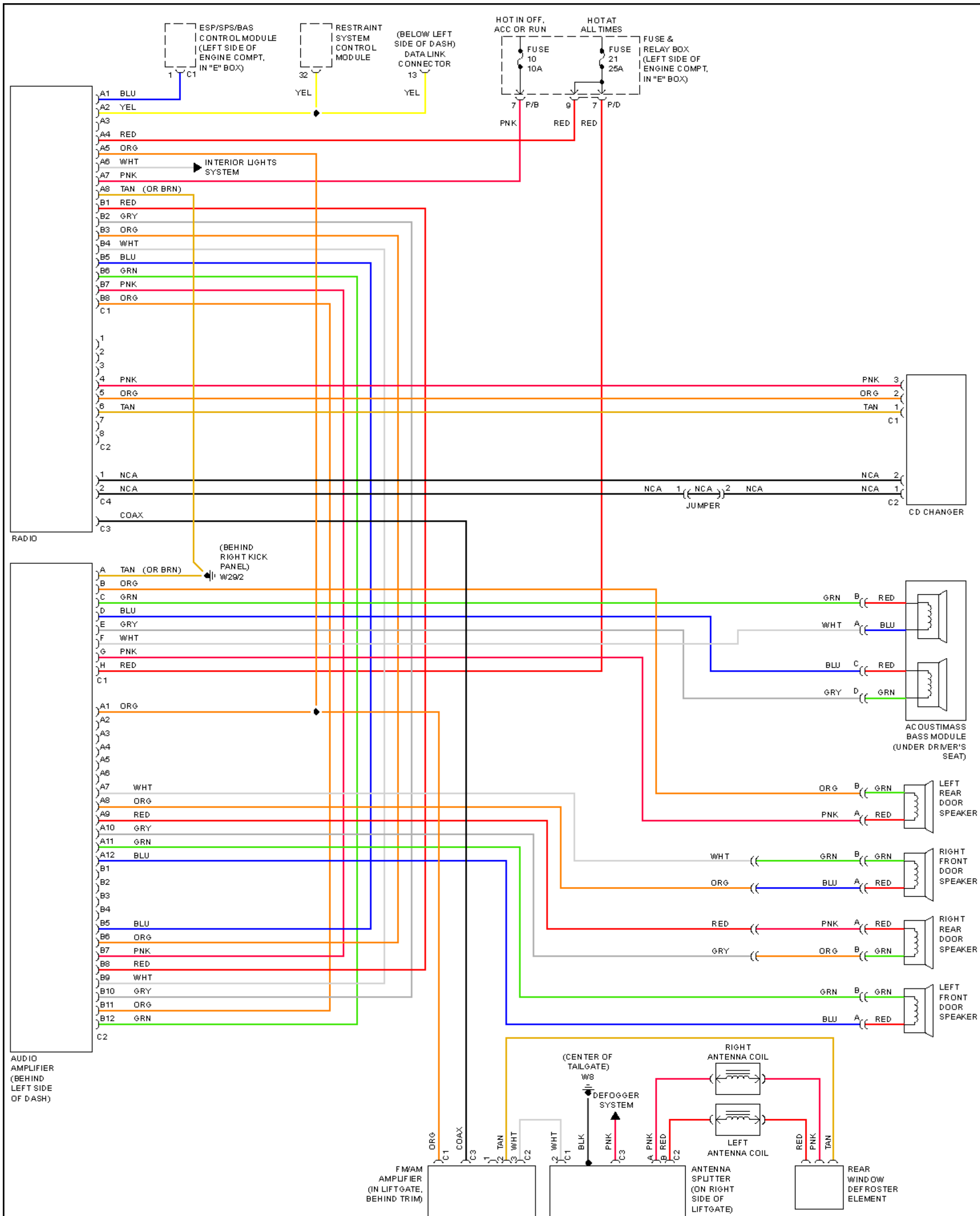


Fig. 55: Premium Sound Radio Circuit, W/O Emergency Call System

SHIFT INTERLOCK

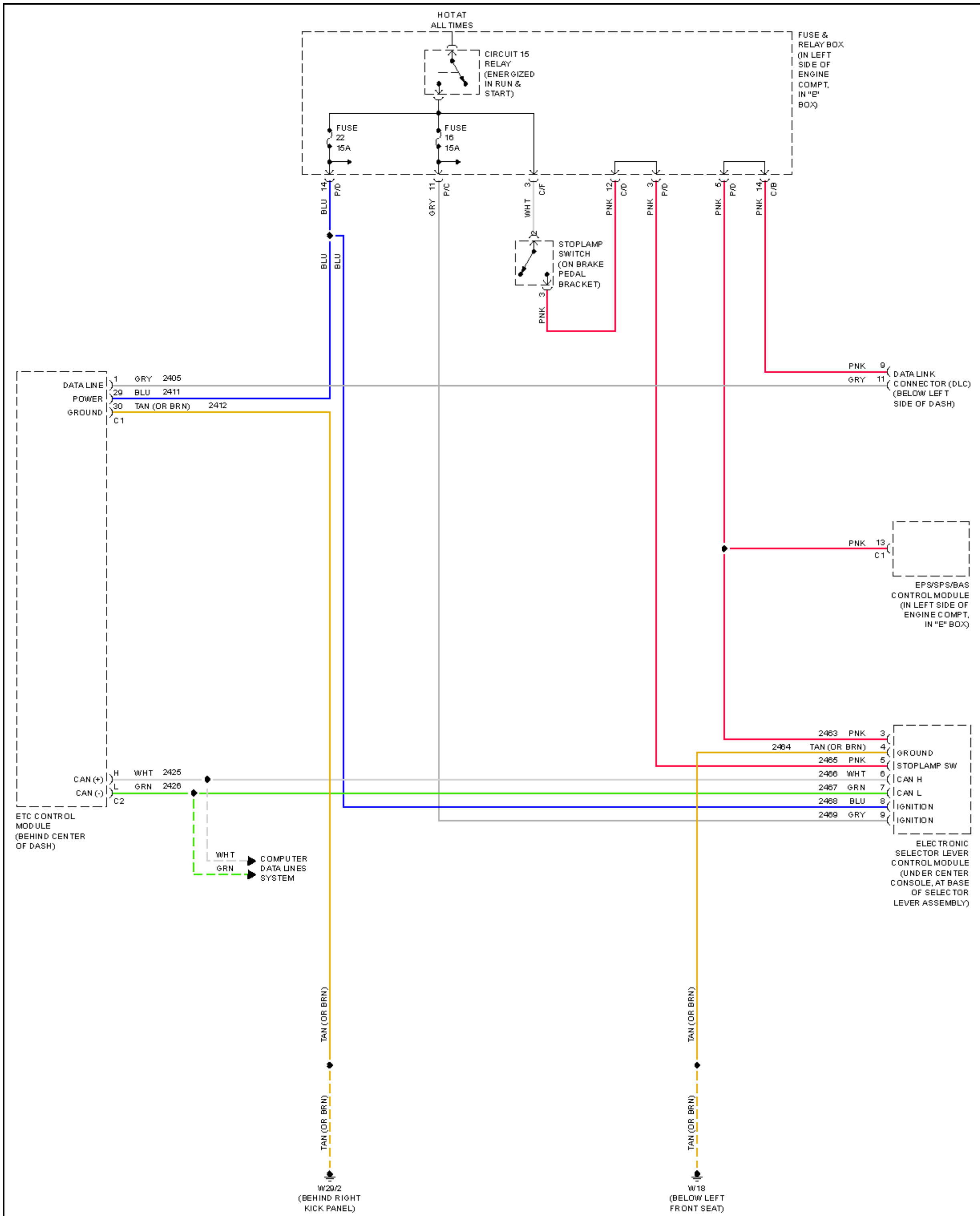

HOT AT ALL TIMES
CIRCUIT 15 RELAY (ENERGIZED IN RUN & START)
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
FUSE 22 15A
FUSE 16 15A
STOPLAMP SWITCH (ON BRAKE PEDAL BRACKET)
DATA LINE
POWER
GROUND
CAN (+)
CAN (-)
ETC CONTROL MODULE (BEHIND CENTER OF DASH)
1 GRY 2405
29 BLU 2411
30 TAN (OR BRN) 2412
H WHT 2425
L GRN 2426
DATA LINK CONNECTOR (DLC) (BELOW LEFT SIDE OF DASH)
EPS/SPS/BAS CONTROL MODULE (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
COMPUTER DATA LINES SYSTEM
2463 PNK 3 GROUND
2464 TAN (OR BRN) 4
2465 PNK 5 STOPLAMP SW
2466 WHT 6 CAN H
2467 GRN 7 CAN L
2468 BLU 8 IGNITION
2469 GRY 9 IGNITION
ELECTRONIC SELECTOR LEVER CONTROL MODULE (UNDER CENTER CONSOLE, AT BASE OF SELECTOR LEVER ASSEMBLY)
W29/2 (BEHIND RIGHT KICK PANEL)
W18 (BELOW LEFT FRONT SEAT)
155345

Fig. 56: Shift Interlock Circuit

STARTING/CHARGING

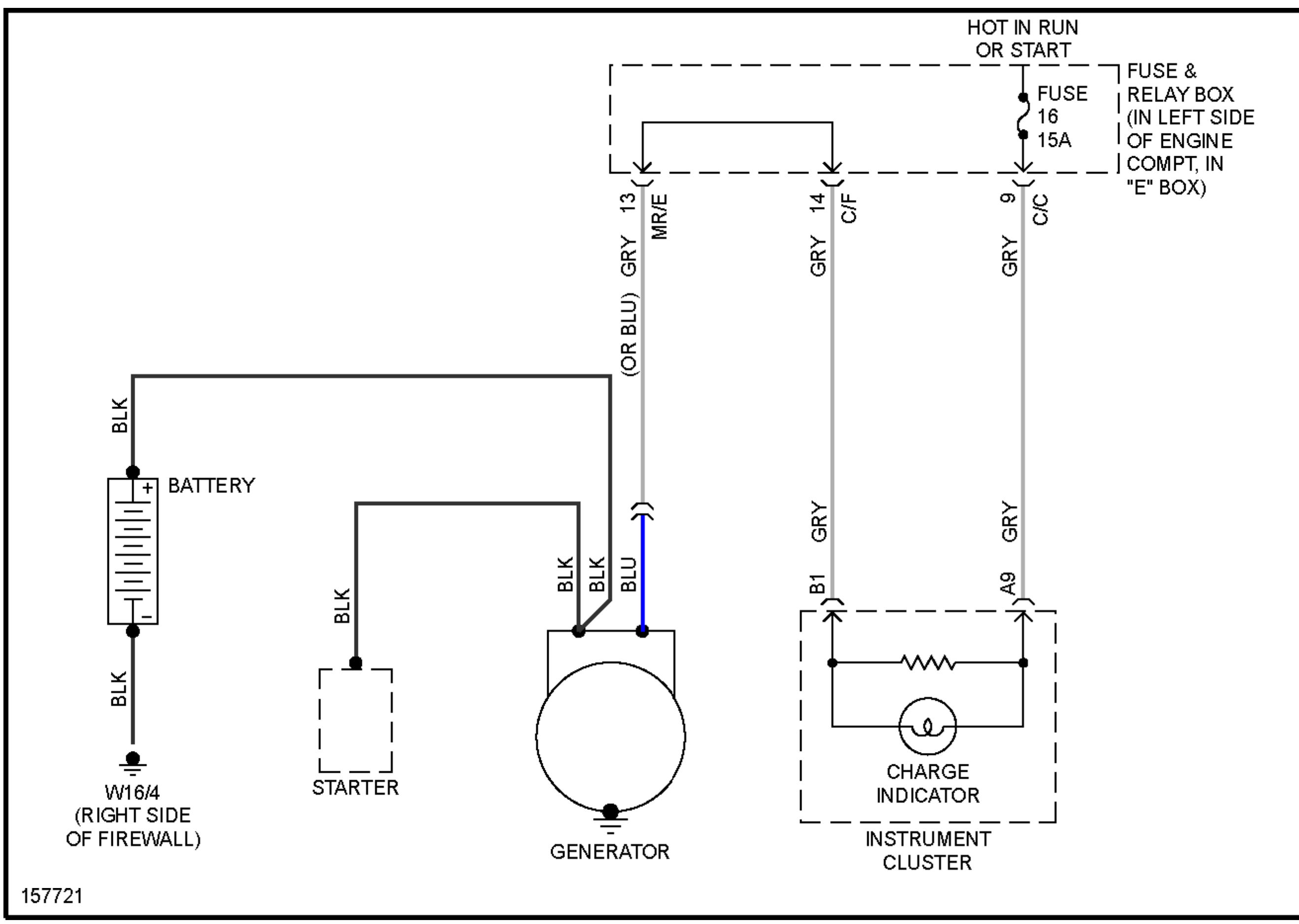

HOT IN RUN
OR START
FUSE &
RELAY BOX
(IN LEFT SIDE
OF ENGINE
COMPT, IN
"E" BOX)
FUSE
16
15A
13
MR/E
14
C/F
9
C/C
GRY
(OR BLU)
GRY
GRY
BLK
BATTERY
BLK
BLK
BLK
BLU
GRY
GRY
B1
A9
BLK
W16/4
(RIGHT SIDE
OF FIREWALL)
STARTER
GENERATOR
CHARGE
INDICATOR
INSTRUMENT
CLUSTER
157721

Fig. 57: Charging Circuit

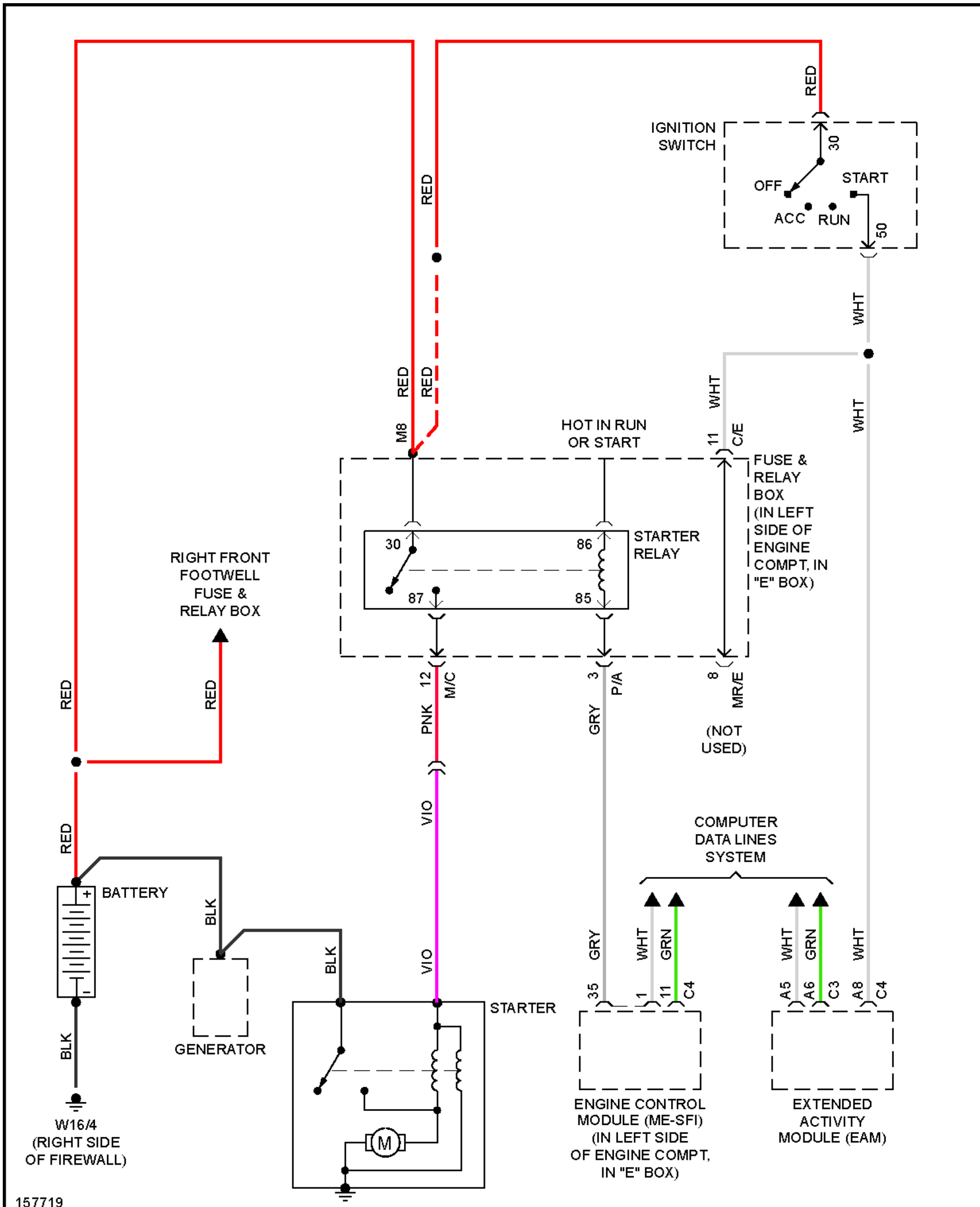

IGNITION SWITCH
OFF
START
ACC
RUN
30
50
RED
WHT
HOT IN RUN OR START
M8
11
C/E
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
STARTER RELAY
30
86
87
85
12
M/C
3
P/A
8
MR/E
(NOT USED)
PNK
GRY
VIO
RIGHT FRONT FOOTWELL FUSE & RELAY BOX
BATTERY
BLK
GENERATOR
STARTER
W16/4 (RIGHT SIDE OF FIREWALL)
COMPUTER DATA LINES SYSTEM
GRN
35
1
11
C4
A5
A6
C3
A8
C4
ENGINE CONTROL MODULE (ME-SFI) (IN LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
EXTENDED ACTIVITY MODULE (EAM)
157719

Fig. 58: Starting Circuit

SUPPLEMENTAL RESTRAINTS

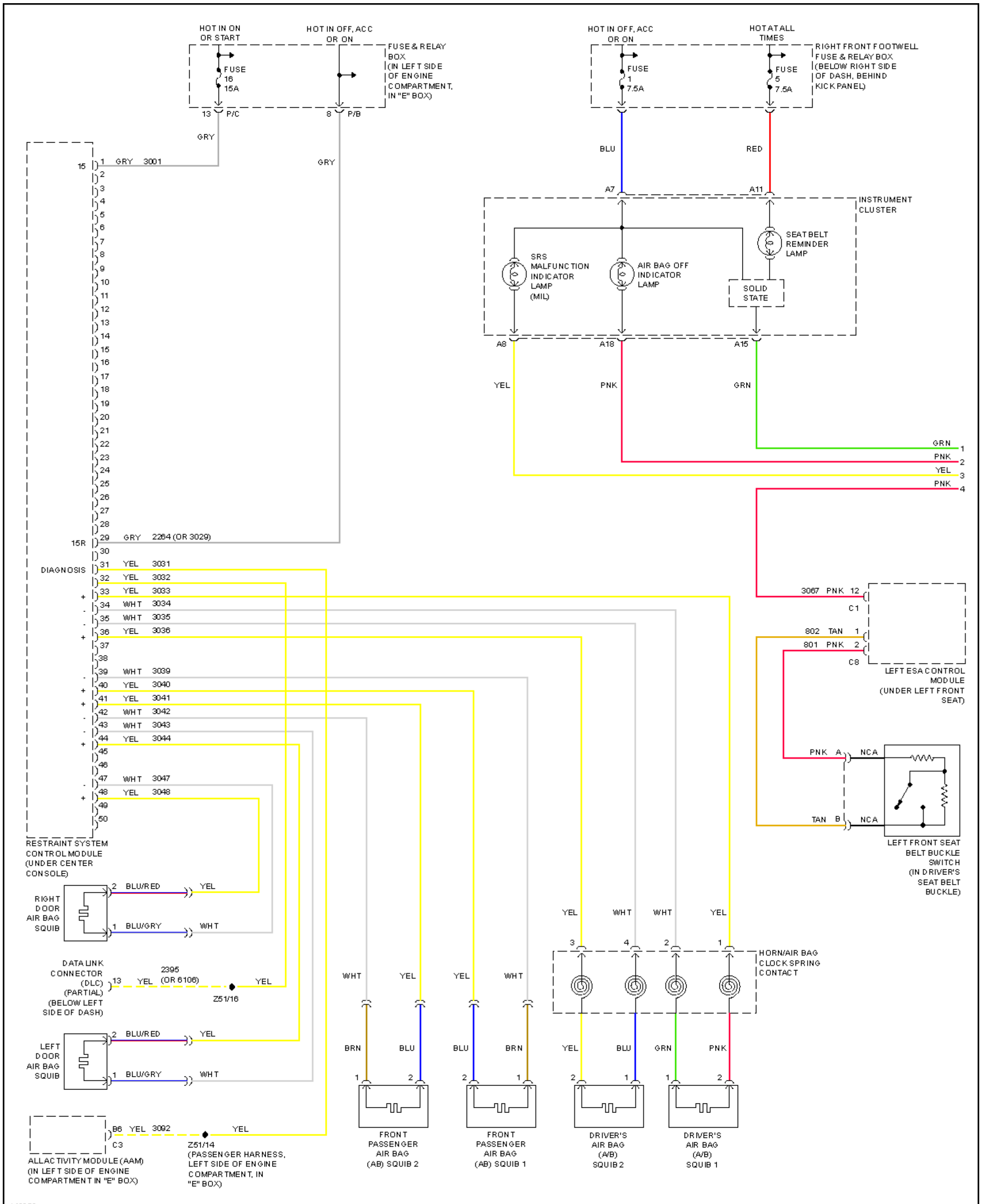

HOT IN ON OR START
HOT IN OFF, ACC OR ON
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
FUSE 16 15A
13 P/C
8 P/B
HOT IN OFF, ACC OR ON
HOT AT ALL TIMES
RIGHT FRONT FOOTWELL FUSE & RELAY BOX (BELOW RIGHT SIDE OF DASH, BEHIND KICK PANEL)
FUSE 1 7.5A
FUSE 5 7.5A
INSTRUMENT CLUSTER
SRS MALFUNCTION INDICATOR LAMP (MIL)
AIR BAG OFF INDICATOR LAMP
SEAT BELT REMINDER LAMP
SOLID STATE
A7
A11
A8
A18
A15
RESTRAINT SYSTEM CONTROL MODULE (UNDER CENTER CONSOLE)
DIAGNOSIS
1 GRY 3001
29 GRY 2264 (OR 3029)
31 YEL 3031
32 YEL 3032
33 YEL 3033
34 WHT 3034
35 WHT 3035
36 YEL 3036
39 WHT 3039
40 YEL 3040
41 YEL 3041
42 WHT 3042
43 WHT 3043
44 YEL 3044
47 WHT 3047
48 YEL 3048
3067 PNK 12 C1
802 TAN 1
801 PNK 2 C8
LEFT ESA CONTROL MODULE (UNDER LEFT FRONT SEAT)
LEFT FRONT SEAT BELT BUCKLE SWITCH (IN DRIVER'S SEAT BELT BUCKLE)
RIGHT DOOR AIR BAG SQUIB
DATA LINK CONNECTOR (DLC) (PARTIAL) (BELOW LEFT SIDE OF DASH)
2395 (OR 6106)
Z51/16
LEFT DOOR AIR BAG SQUIB
ALL ACTIVITY MODULE (AAM) (IN LEFT SIDE OF ENGINE COMPARTMENT IN "E" BOX)
B6 YEL 3092 C3
Z51/14 (PASSENGER HARNESS, LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
HORN/AIR BAG CLOCK SPRING CONTACT
FRONT PASSENGER AIR BAG (AB) SQUIB 2
FRONT PASSENGER AIR BAG (AB) SQUIB 1
DRIVER'S AIR BAG (A/B) SQUIB 2
DRIVER'S AIR BAG (A/B) SQUIB 1
142250

Fig. 59: Supplemental Restraints Circuit, W/ Memory Seats (1 of 2)

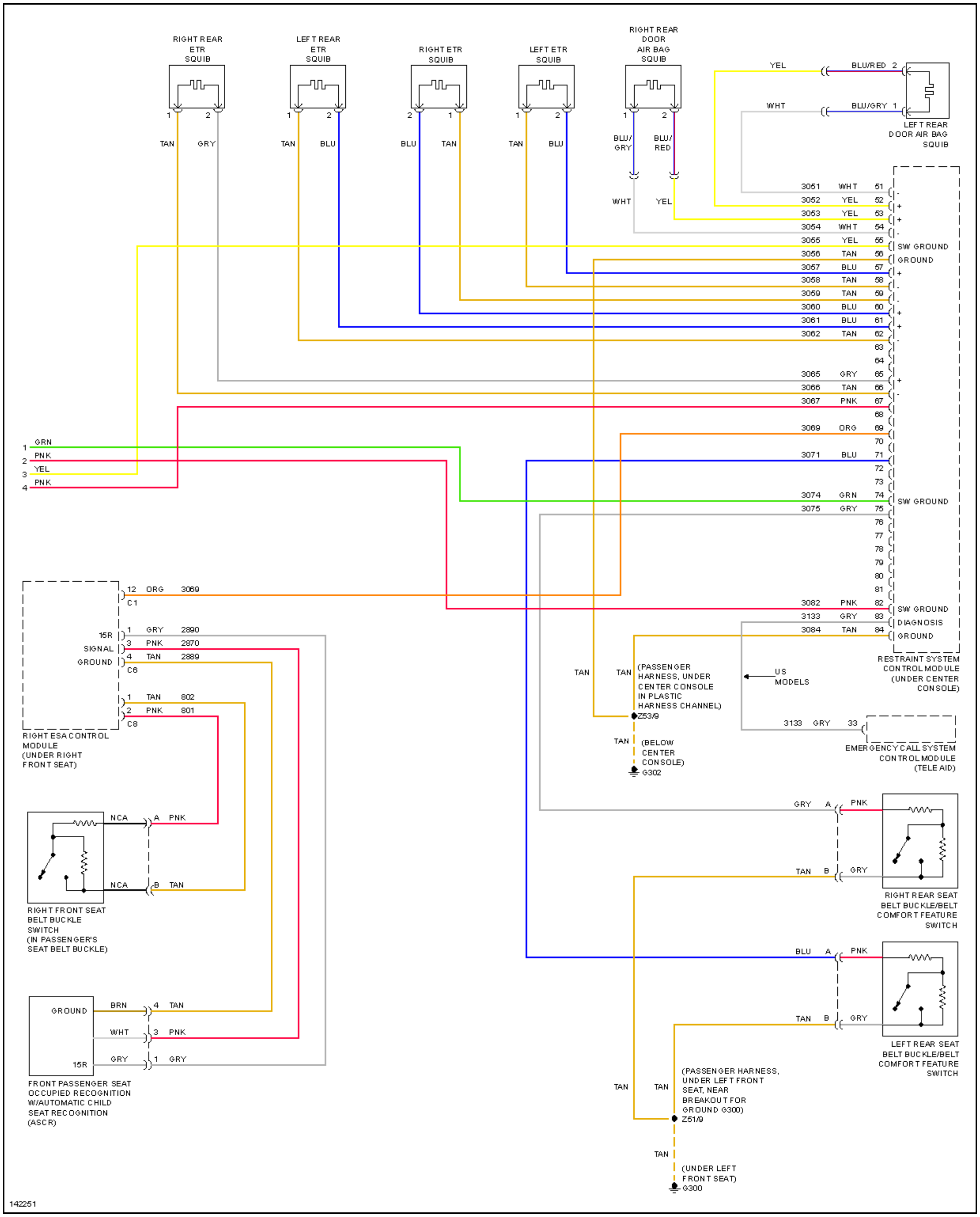
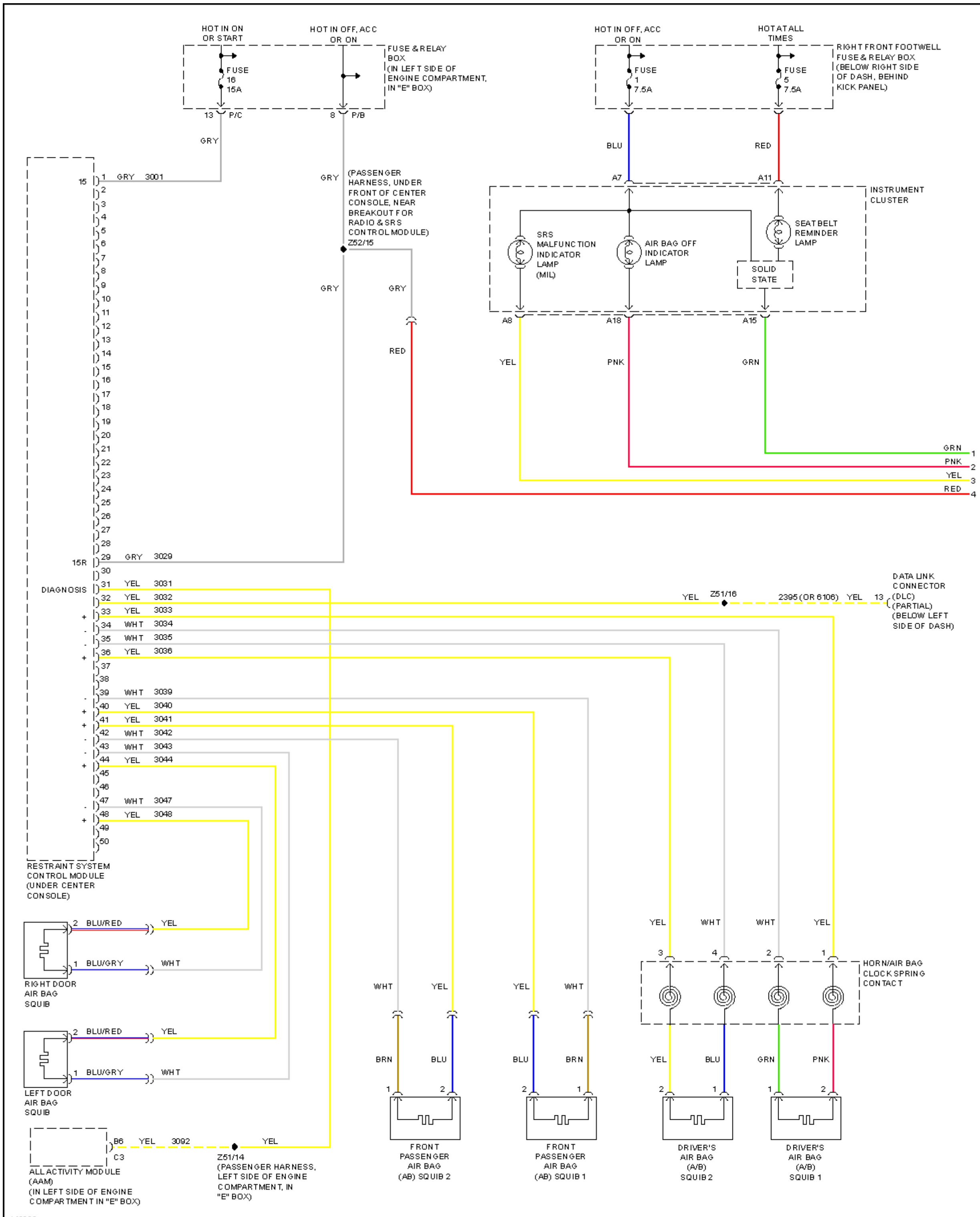

RIGHT REAR ETR SQUIB
LEFT REAR ETR SQUIB
RIGHT ETR SQUIB
LEFT ETR SQUIB
RIGHT REAR DOOR AIR BAG SQUIB
LEFT REAR DOOR AIR BAG SQUIB
RESTRAINT SYSTEM CONTROL MODULE (UNDER CENTER CONSOLE)
SW GROUND
GROUND
DIAGNOSIS
RIGHT ESA CONTROL MODULE (UNDER RIGHT FRONT SEAT)
15R
SIGNAL
GROUND
(PASSENGER HARNESS, UNDER CENTER CONSOLE IN PLASTIC HARNESS CHANNEL)
Z53/9
(BELOW CENTER CONSOLE)
G302
US MODELS
EMERGENCY CALL SYSTEM CONTROL MODULE (TELE AID)
RIGHT REAR SEAT BELT BUCKLE/BELT COMFORT FEATURE SWITCH
RIGHT FRONT SEAT BELT BUCKLE SWITCH (IN PASSENGER'S SEAT BELT BUCKLE)
NCA
LEFT REAR SEAT BELT BUCKLE/BELT COMFORT FEATURE SWITCH
FRONT PASSENGER SEAT OCCUPIED RECOGNITION W/AUTOMATIC CHILD SEAT RECOGNITION (ASCR)
(PASSENGER HARNESS, UNDER LEFT FRONT SEAT, NEAR BREAKOUT FOR GROUND G300)
Z51/9
(UNDER LEFT FRONT SEAT)
G300
142251

Fig. 60: Supplemental Restraints Circuit, W/ Memory Seats (2 of 2)



HOT IN ON OR START
HOT IN OFF, ACC OR ON
FUSE 16 15A
FUSE & RELAY BOX (IN LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
13 P/C
8 P/B
GRY
HOT IN OFF, ACC OR ON
HOT AT ALL TIMES
FUSE 1 7.5A
FUSE 5 7.5A
RIGHT FRONT FOOTWELL FUSE & RELAY BOX (BELOW RIGHT SIDE OF DASH, BEHIND KICK PANEL)
BLU
RED
A7
A11
INSTRUMENT CLUSTER
SRS MALFUNCTION INDICATOR LAMP (MIL)
AIR BAG OFF INDICATOR LAMP
SEAT BELT REMINDER LAMP
SOLID STATE
A8
A18
A15
YEL
PNK
GRN
GRN 1
PNK 2
YEL 3
RED 4
(PASSENGER HARNESS, UNDER FRONT OF CENTER CONSOLE, NEAR BREAKOUT FOR RADIO & SRS CONTROL MODULE) Z52/15
GRY
RED
15
1 GRY 3001
15R
29 GRY 3029
DIAGNOSIS
31 YEL 3031
32 YEL 3032
33 YEL 3033
34 WHT 3034
35 WHT 3035
36 YEL 3036
39 WHT 3039
40 YEL 3040
41 YEL 3041
42 WHT 3042
43 WHT 3043
44 YEL 3044
47 WHT 3047
48 YEL 3048
RESTRAINT SYSTEM CONTROL MODULE (UNDER CENTER CONSOLE)
YEL Z51/16
2395 (OR 6106) YEL 13
DATA LINK CONNECTOR (DLC) (PARTIAL) (BELOW LEFT SIDE OF DASH)
2 BLU/RED YEL
1 BLU/GRY WHT
RIGHT DOOR AIR BAG SQUIB
LEFT DOOR AIR BAG SQUIB
B6 YEL 3092
C3
YEL
ALL ACTIVITY MODULE (AAM) (IN LEFT SIDE OF ENGINE COMPARTMENT IN "E" BOX)
Z51/14 (PASSENGER HARNESS, LEFT SIDE OF ENGINE COMPARTMENT, IN "E" BOX)
WHT
BRN
BLU
YEL
HORN/AIR BAG CLOCK SPRING CONTACT
FRONT PASSENGER AIR BAG (AB) SQUIB 2
FRONT PASSENGER AIR BAG (AB) SQUIB 1
DRIVER'S AIR BAG (A/B) SQUIB 2
DRIVER'S AIR BAG (A/B) SQUIB 1
142239

Fig. 61: Supplemental Restraints Circuit, W/O Memory Seats (1 of 2)

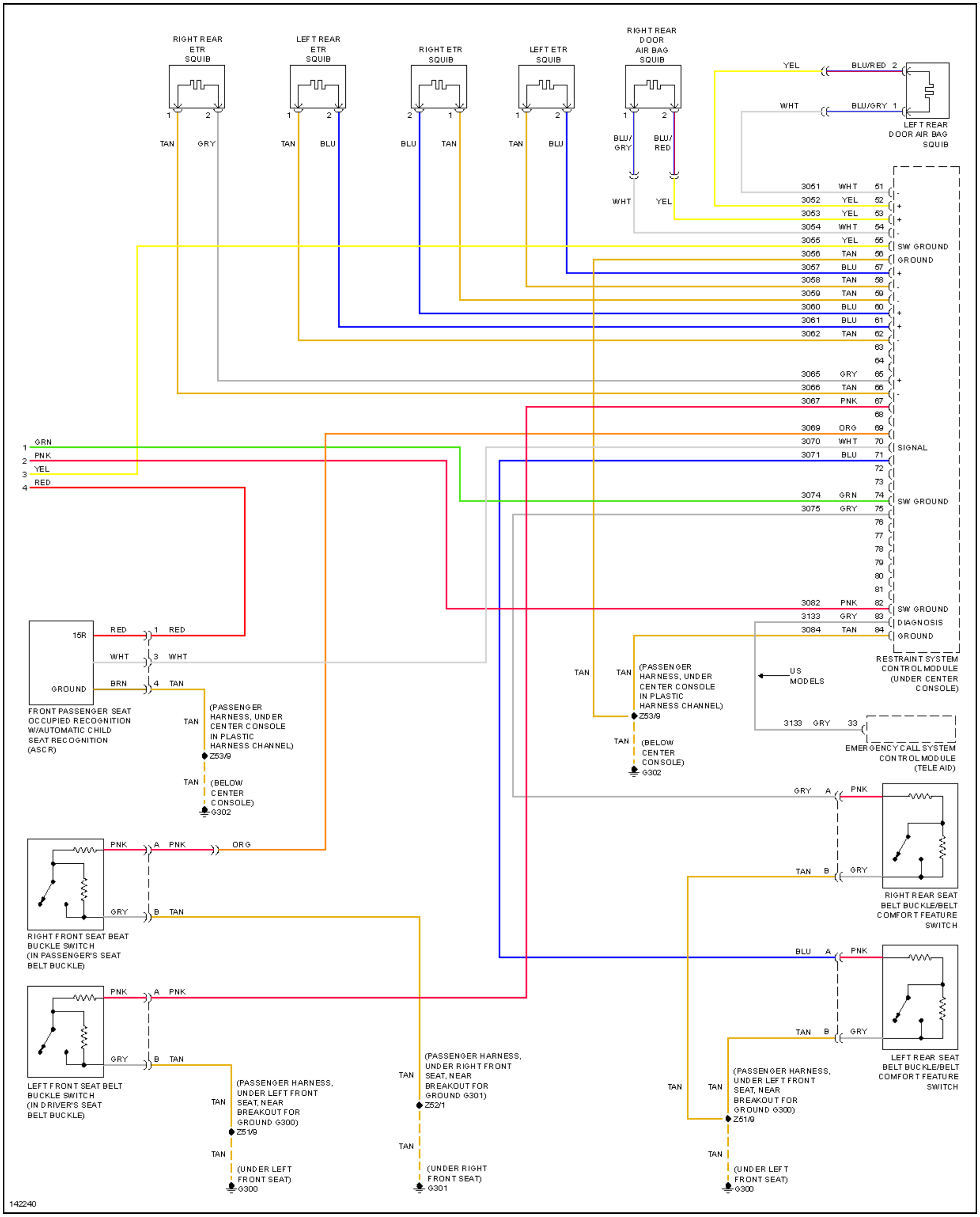

RIGHT REAR ETR SQUIB
LEFT REAR ETR SQUIB
RIGHT ETR SQUIB
LEFT ETR SQUIB
RIGHT REAR DOOR AIR BAG SQUIB
LEFT REAR DOOR AIR BAG SQUIB
RESTRAINT SYSTEM CONTROL MODULE (UNDER CENTER CONSOLE)
SW GROUND
GROUND
SIGNAL
DIAGNOSIS
US MODELS
EMERGENCY CALL SYSTEM CONTROL MODULE (TELE AID)
FRONT PASSENGER SEAT OCCUPIED RECOGNITION W/AUTOMATIC CHILD SEAT RECOGNITION (ASCR)
(PASSENGER HARNESS, UNDER CENTER CONSOLE IN PLASTIC HARNESS CHANNEL)
Z53/9
(BELOW CENTER CONSOLE)
G302
RIGHT FRONT SEAT BEAT BUCKLE SWITCH (IN PASSENGER'S SEAT BELT BUCKLE)
LEFT FRONT SEAT BELT BUCKLE SWITCH (IN DRIVER'S SEAT BELT BUCKLE)
RIGHT REAR SEAT BELT BUCKLE/BELT COMFORT FEATURE SWITCH
LEFT REAR SEAT BELT BUCKLE/BELT COMFORT FEATURE SWITCH
(PASSENGER HARNESS, UNDER LEFT FRONT SEAT, NEAR BREAKOUT FOR GROUND G300)
Z51/9
(UNDER LEFT FRONT SEAT)
G300
(PASSENGER HARNESS, UNDER RIGHT FRONT SEAT, NEAR BREAKOUT FOR GROUND G301)
Z52/1
(UNDER RIGHT FRONT SEAT)
G301
142240

Fig. 62: Supplemental Restraints Circuit, W/O Memory Seats (2 of 2)

TRANSMISSION

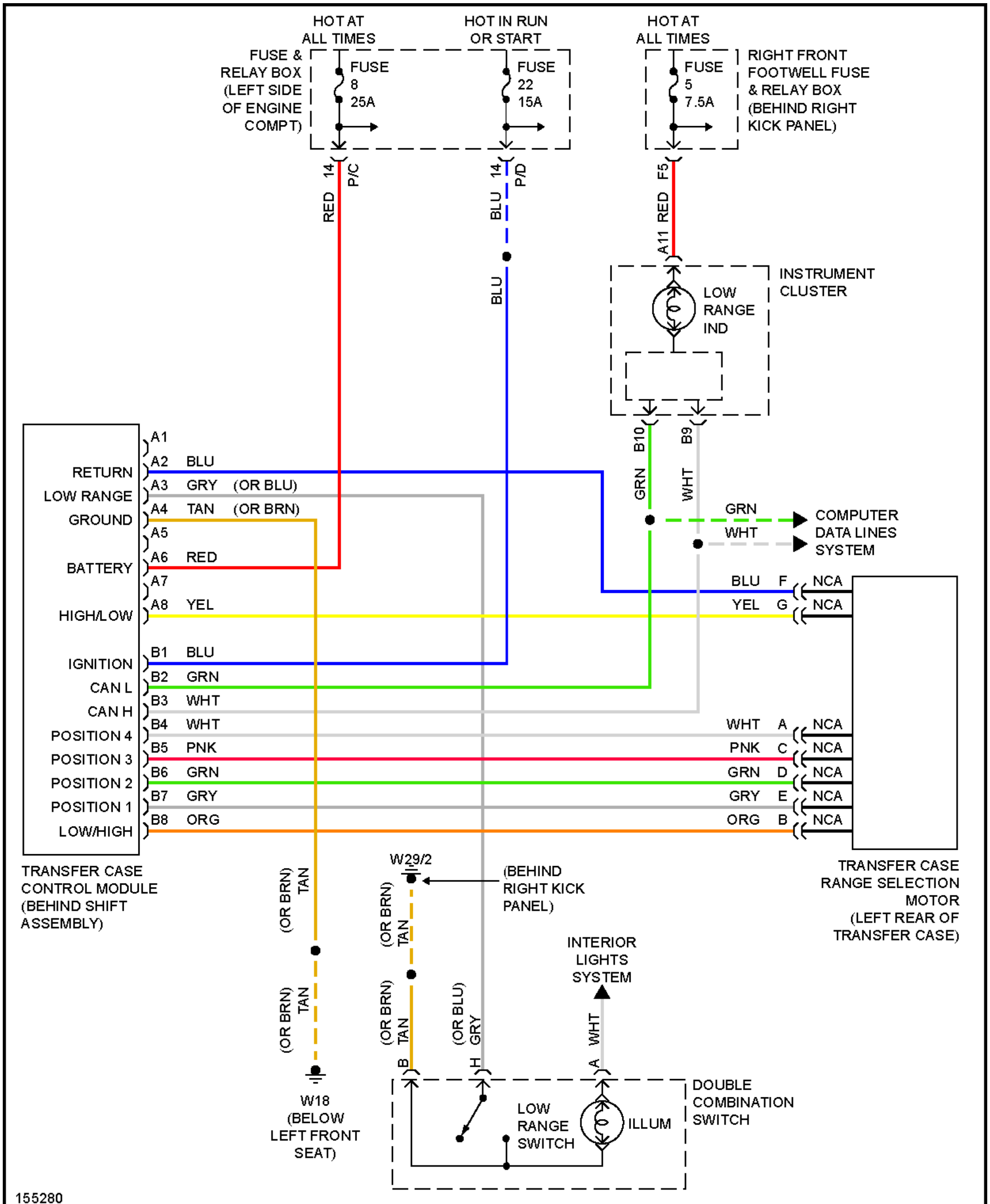

HOT AT ALL TIMES
HOT IN RUN OR START
HOT AT ALL TIMES
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT)
FUSE 8 25A
FUSE 22 15A
FUSE 5 7.5A
RIGHT FRONT FOOTWELL FUSE & RELAY BOX (BEHIND RIGHT KICK PANEL)
14 P/C
RED
14 P/D
BLU
F5
A11
INSTRUMENT CLUSTER
LOW RANGE IND
B10
B9
GRN
WHT
COMPUTER DATA LINES SYSTEM
RETURN
LOW RANGE
GROUND
BATTERY
HIGH/LOW
IGNITION
CAN L
CAN H
POSITION 4
POSITION 3
POSITION 2
POSITION 1
LOW/HIGH
A1
A2 BLU
A3 GRY (OR BLU)
A4 TAN (OR BRN)
A5
A6 RED
A7
A8 YEL
B1 BLU
B2 GRN
B3 WHT
B4 WHT
B5 PNK
B6 GRN
B7 GRY
B8 ORG
BLU F NCA
YEL G NCA
WHT A NCA
PNK C NCA
GRN D NCA
GRY E NCA
ORG B NCA
TRANSFER CASE CONTROL MODULE (BEHIND SHIFT ASSEMBLY)
TRANSFER CASE RANGE SELECTION MOTOR (LEFT REAR OF TRANSFER CASE)
W29/2
(BEHIND RIGHT KICK PANEL)
TAN (OR BRN)
GRY (OR BLU)
INTERIOR LIGHTS SYSTEM
WHT
B
H
A
W18 (BELOW LEFT FRONT SEAT)
LOW RANGE SWITCH
ILLUM
DOUBLE COMBINATION SWITCH
155280

Fig. 63: 4WD Circuit

2001 Mercedes-Benz ML320

2001 SYSTEM WIRING DIAGRAMS Mercedes-Benz - ML320

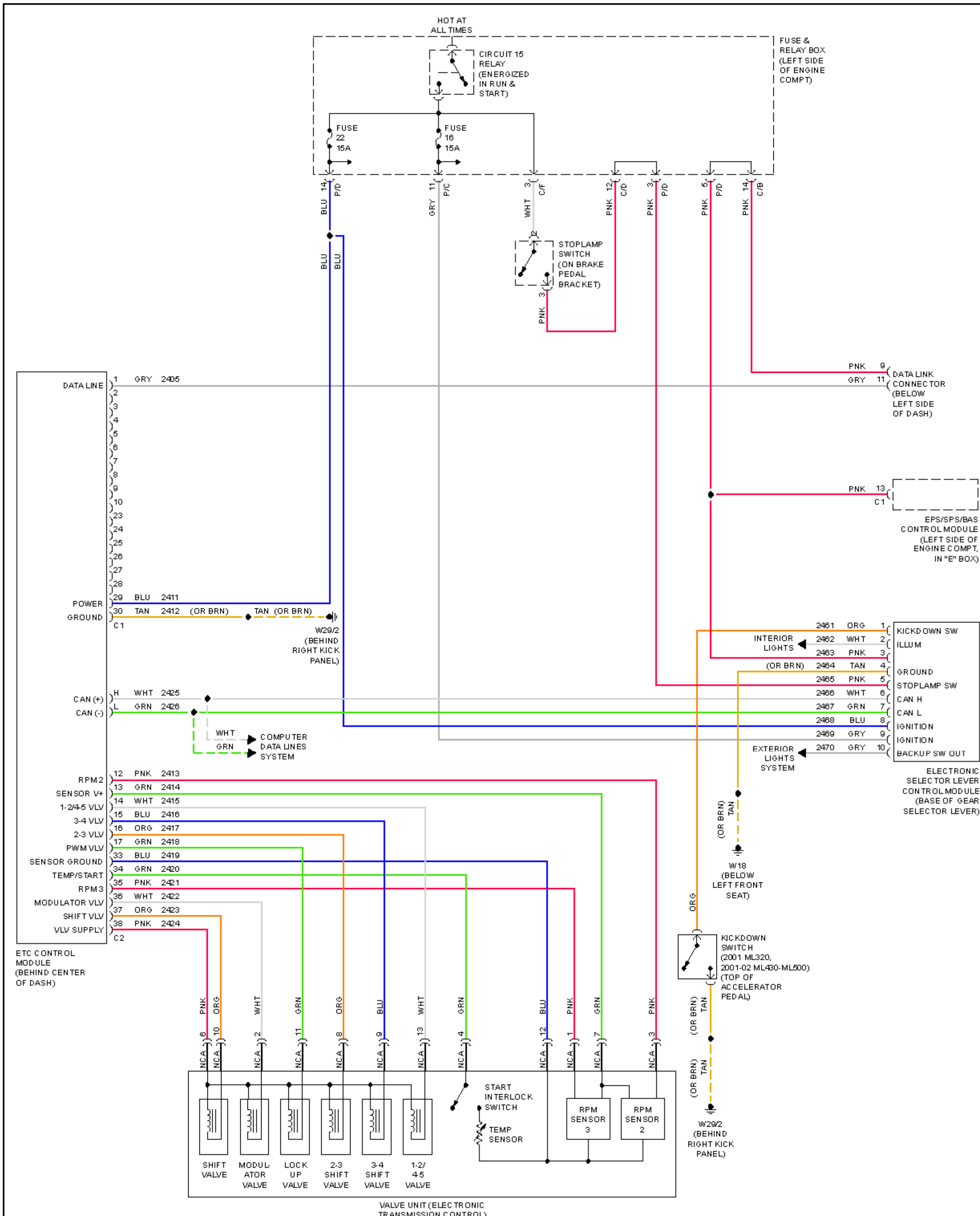
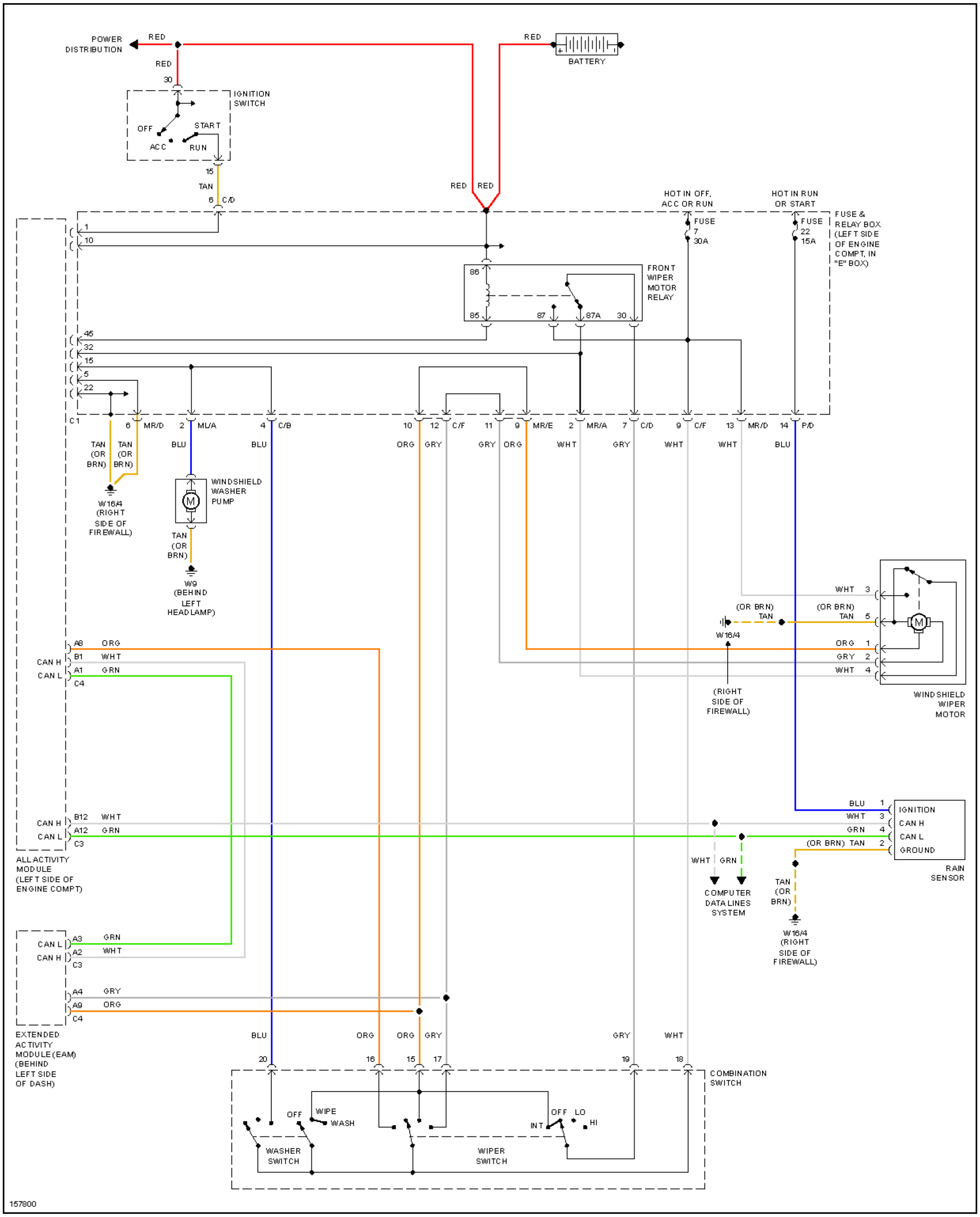


Fig. 64: A/T Circuit

WIPER/WASHER



POWER DISTRIBUTION
BATTERY
IGNITION SWITCH
OFF
ACC
START
RUN
HOT IN OFF, ACC OR RUN
HOT IN RUN OR START
FUSE 7 30A
FUSE 22 15A
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
FRONT WIPER MOTOR RELAY
W16/4 (RIGHT SIDE OF FIREWALL)
WINDSHIELD WASHER PUMP
W9 (BEHIND LEFT HEADLAMP)
WINDSHIELD WIPER MOTOR
(RIGHT SIDE OF FIREWALL)
IGNITION
CAN H
CAN L
GROUND
RAIN SENSOR
COMPUTER DATA LINES SYSTEM
ALL ACTIVITY MODULE (LEFT SIDE OF ENGINE COMPT)
EXTENDED ACTIVITY MODULE (EAM) (BEHIND LEFT SIDE OF DASH)
COMBINATION SWITCH
WASHER SWITCH
WIPER SWITCH
WIPE
WASH
INT
LO
HI
157800

Fig. 65: Front Wiper/Washer Circuit

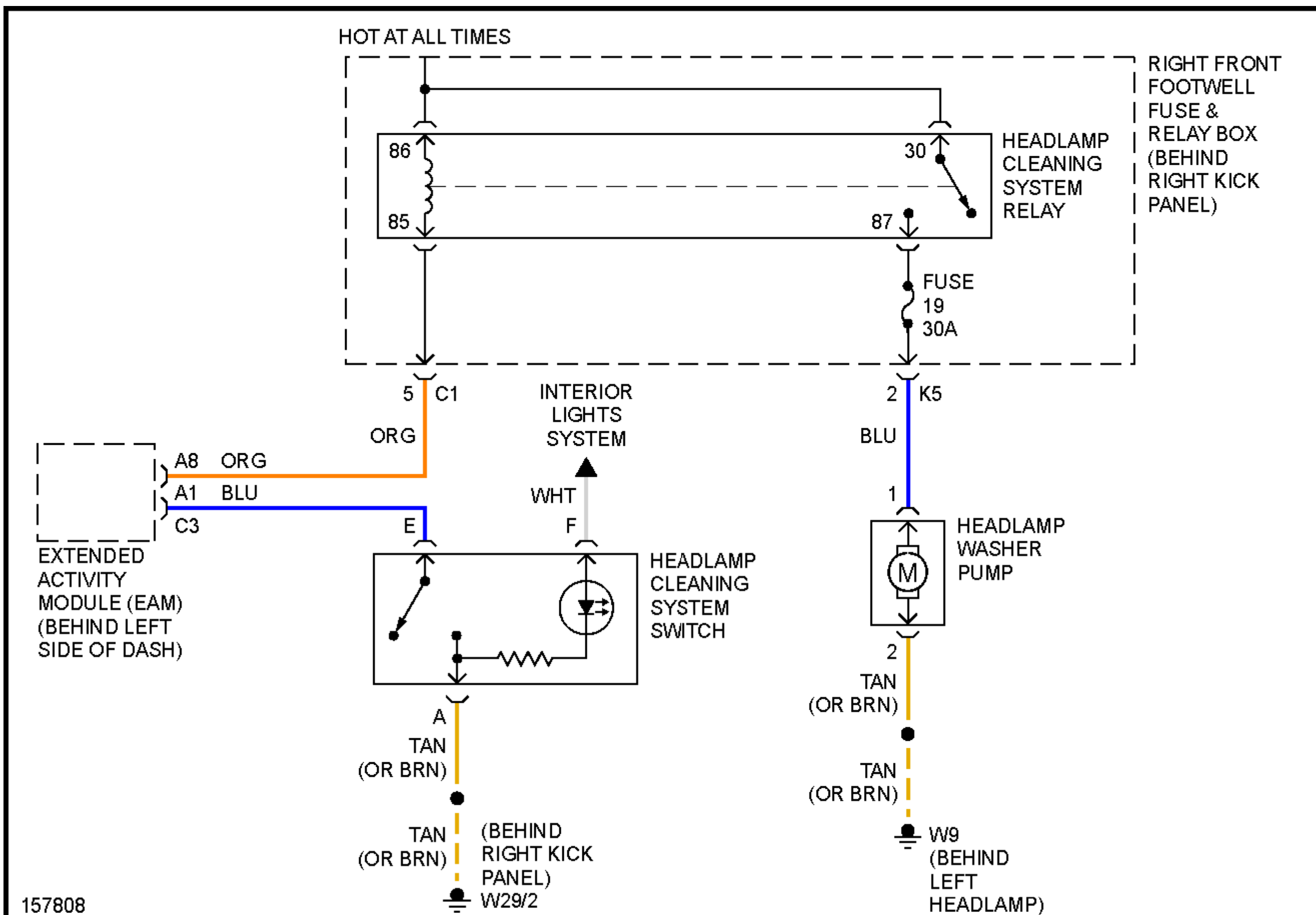
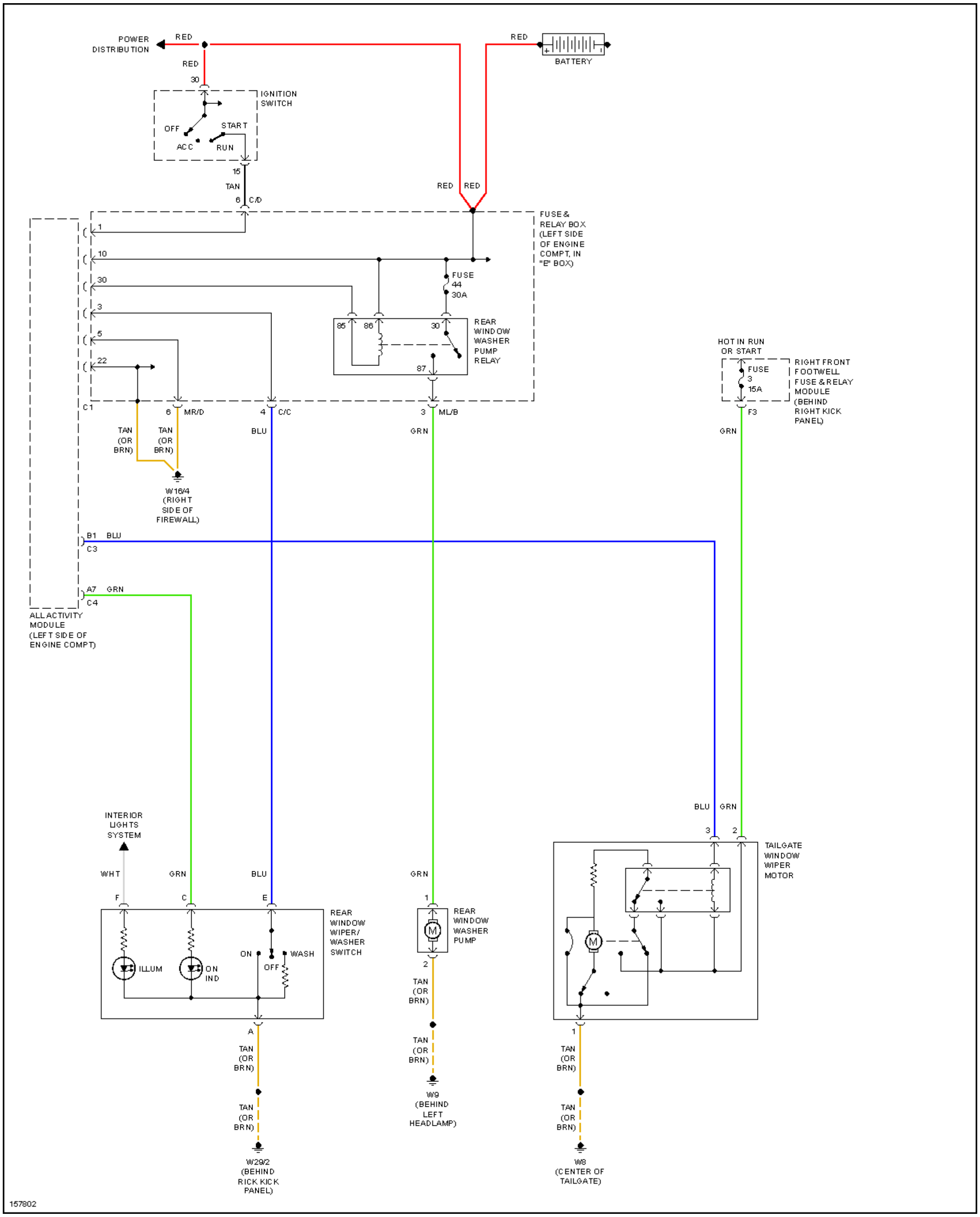

HOT AT ALL TIMES
RIGHT FRONT FOOTWELL FUSE & RELAY BOX (BEHIND RIGHT KICK PANEL)
86
85
30
87
HEADLAMP CLEANING SYSTEM RELAY
FUSE 19 30A
5
C1
2
K5
ORG
BLU
INTERIOR LIGHTS SYSTEM
A8
ORG
A1
BLU
C3
EXTENDED ACTIVITY MODULE (EAM) (BEHIND LEFT SIDE OF DASH)
WHT
E
F
HEADLAMP CLEANING SYSTEM SWITCH
1
HEADLAMP WASHER PUMP
M
2
TAN (OR BRN)
A
TAN (OR BRN)
TAN (OR BRN)
TAN (OR BRN)
W9 (BEHIND LEFT HEADLAMP)
(BEHIND RIGHT KICK PANEL)
W29/2
157808

Fig. 66: Headlamp Washer Circuit



POWER DISTRIBUTION
RED
BATTERY
IGNITION SWITCH
OFF
START
ACC
RUN
TAN
C/D
FUSE & RELAY BOX (LEFT SIDE OF ENGINE COMPT, IN "E" BOX)
FUSE 44 30A
REAR WINDOW WASHER PUMP RELAY
HOT IN RUN OR START
FUSE 3 15A
RIGHT FRONT FOOTWELL FUSE & RELAY MODULE (BEHIND RIGHT KICK PANEL)
MR/D
C/C
ML/B
F3
TAN (OR BRN)
BLU
GRN
W16/4 (RIGHT SIDE OF FIREWALL)
ALL ACTIVITY MODULE (LEFT SIDE OF ENGINE COMPT)
INTERIOR LIGHTS SYSTEM
WHT
ILLUM
ON IND
ON
OFF
WASH
REAR WINDOW WIPER/ WASHER SWITCH
REAR WINDOW WASHER PUMP
TAILGATE WINDOW WIPER MOTOR
W29/2 (BEHIND RICK KICK PANEL)
W9 (BEHIND LEFT HEADLAMP)
W8 (CENTER OF TAILGATE)
157802

Fig. 67: Rear Wiper/Washer Circuit